

APPENDIX C

Third & Fourth Quarter 2021 Laboratory Data and Quality Review

SEMIANNUAL GROUNDWATER SAMPLING

October 5-7, 2021

To: G Mergenthaler
From: Deb Kutsal
Re: Review of the Groundwater Data for Samples Collected in October 2021 at General Electric Facility in Lancaster, Pennsylvania
File: GE Lan DVR Oct2021.doc
Date: January 5, 2022

A Stage 2A data validation was performed for groundwater samples collected in October 2021 at or related to the General Electric facility in Lancaster, Pennsylvania, as part of the second biannual groundwater sampling round for 2021.

The following table summarizes the analyses performed by Pace Analytical Services, Inc. of Greensburg, Pennsylvania (Pace) for this sampling event.

Table 1. Analytical Methods and References

Parameter	Method	Reference
Volatile organic compounds	USEPA Method 8260B	1
Dissolved metals	USEPA Method 6010B	1

Notes:

- United States Environmental Protection Agency (USEPA). 2004. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846*, 3rd Edition

The data package provided by Pace Analytical Services, LLC includes summarized data quality control results.

The data validation task included review of the summary forms provided in the laboratory data packages associated with the following parameters (where applicable):

- Data completeness
- Sample preservation, receipt, and holding times
- Blank results (field, trip, and method blanks)
- System monitoring compound results (VOCs only)
- Matrix spike and matrix spike duplicate (MS/MSD) results
- Laboratory duplicate results (metals only)
- Field duplicate results
- Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) results
- Re-extraction and reanalysis
- Method detection limits (MDL)/reporting limits (RL)

The analytical data generated for this investigation were evaluated by Tetra Tech in accordance with the following USEPA guidance documents:

- Environmental Protection Agency (USEPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009)
- USEPA *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020)
- USEPA *National Functional Guidelines for Organic Superfund Methods Data Review*

(November 2020).

The samples that underwent data validation are presented in Table 2. Table 3 presents laboratory analysis term definitions. Table 4 presents data validation approach applied to data for this project.

The following sections of this memorandum present the data validation findings and qualifiers assigned to the data. Excursions that resulted in the qualification of data and/or additional observations are presented below.

DATA VALIDATION SUMMARY

The following data validation parameters were reviewed (as applicable):

- Data completeness
- Sample preservation, receipt, and holding times
- Laboratory blanks
- Field blanks
- System monitoring compounds
- MS/MSDs
- Lab duplicates
- Field duplicates
- Laboratory control samples/laboratory control sample duplicates (LCS/LCSD)
- Sample dilutions
- Re-extraction and reanalysis
- Method detection limits (MDL)/reporting limits (RL)
- Tentatively identified compounds

Excursions from laboratory and/or validation guidance criteria and noteworthy analytical observations are described below, organized by analysis.

VOLATILE ORGANIC COMPOUNDS

Method Blank Results:

Method blank 2261633 contained 0.31 µg/L trichloroethene. The trichloroethene result for the following associated samples was raised to the reporting limit and qualified as nondetect (flagged U); 15, AW-3, GW-9007, and TB (HCl). The trichloroethene result for samples 10D and 6 was qualified as estimated, possibly biased high (flagged J+).

Field Blank Results:

Trip blank sample TB (HCl) contained 0.35 µg/L trichloroethene. However, this result was qualified as nondetect because of method blank contamination (see above). No further qualifications were applied.

MS/MSD Results:

GW-9007: The MSD recovery for cis-1,2-dichloroethene, trans-1,2-dichloroethene, and trichloroethene exceed the laboratory control limit. The average MS/MSD recovery for trans-1,2-dichloroethene is within the



laboratory control limit; therefore, no qualifications were applied. The average MS/MSD recovery for cis-1,2-dichloroethene and trichloroethene exceed the laboratory control limit; however, the parent sample result for both samples is nondetect; therefore, no qualifications were applied.

Field Duplicate Results:

AW-4/DUP-1: The RPD for cis-1,2-dichloroethene and trichloroethene exceed the control limit of 25 for water matrix field duplicate samples. Therefore, the cis-1,2-dichloroethene and trichloroethene result for both samples was qualified as estimated (flagged J).

Dilutions:

The following samples were analyzed for the following analytes at the dilutions shown due to elevated concentrations of these target analytes:

Sample ID	Analyte	Dilution
5	cis-1,2-dichloroethene and vinyl chloride	20
GW-9001	cis-1,2-dichloroethene and trichloroethene	100
GW-9006	Trichloroethene	10

METALS

All quality control results are compliant.

OVERALL DATA QUALITY

The quality of the data presented in the data package is acceptable based on the limited review performed and the findings described in this memorandum. The data were found to be usable as qualified based on the data validation summary described above.



Table 2 - GE Lancaster Data Validation Sample Summary - October 2021

Laboratory	SDG	Sample Date	Laboratory ID	Client ID	Matrix	Analysis
Pace	30444573	10/06/2021	30444573001	5	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/06/2021	30444573002	6	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573003	7D	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573004	10D	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573005	12D	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573006	14	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573007	15	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573008	18	Groundwater	VOCs
Pace	30444573	10/06/2021	30444573009	AW-3	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573010	AW-4	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573011	GW-9001	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/06/2021	30444573012	GW-9004	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573013	GW-9006	Groundwater	VOCs
Pace	30444573	10/05/2021	30444573014	GW-9007	Groundwater	VOCs
Pace	30444573	10/05/2021	30444573015	GW-9008	Groundwater	VOCs
Pace	30444573	10/07/2021	30444573016	Spring 1	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573017	DUP-1	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573018	FB	Aqueous	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573019	GW-9020	Groundwater	Dissolved cadmium, dissolved nickel, and VOCs
Pace	30444573	10/07/2021	30444573020	TB (HCl)	Aqueous	VOCs
Pace	30444573	10/07/2021	30444573021	TB (Ascorbic Acid)	Aqueous	VOCs

Notes:

DUP-1 = Field duplicate of sample AW-4

Pace = Pace Analytical Services, 1638 Roseytown Road, Greensburg, Pennsylvania

TB = Trip blank

VOCs = Volatile organic compounds

Table 3. Laboratory QA/QC Term Definitions

QA/QC Term	Definition
Quantitation limit	The level above which numerical results may be obtained with a specified degree of confidence; the minimum concentration of an analyte in a specific matrix that can be identified and quantified above the method detection limit and within specified limits of precision and bias during routine analytical operating conditions.
Method detection limit	The minimum concentration of an analyte that undergoes preparation similar to the environmental samples and can be reported with a stated level of confidence that the analyte concentration is greater than zero.
Instrument detection limit	The lowest concentration of a metal target analyte that, when directly inputted and processed on a specific analytical instrument, produces a signal/response that is statistically distinct from the signal/response arising from equipment "noise" alone.
Gas chromatography/mass spectrometry (GC/MS) instrument performance check	Performed to verify mass resolution, identification, and to some degree, instrument sensitivity. These criteria are not sample specific; conformance is determined using standard materials.
Calibration	Compliance requirements for satisfactory instrument calibration are established to verify that the instrument is capable of producing acceptable quantitative data. Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of analysis and calibration verifications document satisfactory maintenance and adjustment of the instrument on a day-to-day basis.
Relative Response Factor	A measure of the relative mass spectral response of an analyte compared to its internal standard. Relative Response Factors are determined by analysis of standards and are used in the calculation of concentrations of analytes in samples.
Relative standard deviation	The standard deviation divided by the mean; a unit-free measure of variability.
Correlation coefficient	A measure of the strength of the relationship between two variables.
Relative percent difference	Used to compare two values; the relative percent difference is based on the mean of the two values, and is reported as an absolute value, i.e., always expressed as a positive number or zero.
Percent difference	Used to compare two values; the percent difference indicates both the direction and the magnitude of the comparison, i.e., the percent difference may be either negative, positive, or zero.
Percent recovery	The act of determining whether or not the methodology measures all of the target analytes contained in a sample.
Calibration blank	Consists of acids and reagent water used to prepare metal samples for analysis. This type of blank is analyzed to evaluate whether contamination is occurring during the preparation and analysis of the sample.
Method blank	A water or soil blank that undergoes the preparation procedures applied to a sample (i.e., extraction, digestion, clean-up). These samples are analyzed to examine whether sample preparation, clean-up, and analysis techniques result in sample contamination.
Field/equipment	Collected and submitted for laboratory analysis, where appropriate. Field/equipment blanks are handled in the same manner as environmental samples. Equipment/field blanks are analyzed to assess contamination introduced during field sampling procedures.
Trip blank	Consist of samples of analyte-free water that have undergone shipment from the sampling site to the laboratory in coolers with the environmental samples submitted for volatile organic compound (VOC) analysis. Trip blanks will be analyzed for VOCs to determine if contamination has taken place during sample handling and/or shipment. Trip blanks will be utilized at a frequency of one each per cooler sent to the laboratory for VOC analysis.
Internal standards performance	Compounds not found in environmental samples which are spiked into samples and quality control samples at the time of sample preparation for organic analyses. Internal standards must meet retention time and recovery criteria specified in the analytical method. Internal standards are used as the basis for quantitation of the target analytes.
Surrogate recovery	Compounds similar in nature to the target analytes but not expected to be detected in the environmental media which are spiked into environmental samples, blanks, and quality control samples prior to sample preparation for organic analyses. Surrogates are used to evaluate analytical efficiency by measuring recovery.
Laboratory control sample Matrix spike blank analyses	Standard solutions that consist of known concentrations of the target analytes spiked into laboratory analyte-free water or sand. They are prepared or purchased from a certified manufacturer from a source independent from the calibration standards to provide an independent verification of the calibration procedure. They are prepared and analyzed following the same procedures employed for environmental sample analysis to assess method accuracy independently of sample matrix effects.
Laboratory duplicate	Two or more representative portions taken from one homogeneous sample by the analyst and analyzed in the same laboratory.
Matrix	The material of which the sample is composed or the substrate containing the analyte of interest, such as drinking water, waste water, air, soil/sediment, biological material.
Matrix spike (MS)	An aliquot of a matrix (water or soil) fortified (spiked) with known quantities of specific target analytes and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery.
Matrix spike duplicate (MSD)	A second aliquot of the same matrix as the matrix spike that is spiked in order to determine the precision of the method.
Retention time	The time a target analyte is retained on a GC column before elution. The identification of a target analyte is dependent on a target compound's retention time falling within the specified retention time window established for that compound.
Relative retention time	The ratio of the retention time of a compound to that of a standard.

Table 4. Data Validation Approach

General Validation Approach	For certain parameters, USEPA guidance for data validation indicates that professional judgment is to be utilized to identify the appropriate validation action. In these situations, the validation approach is a conservative one; qualifiers are applied to sample data to indicate both major and minor excursions. In this way, data associated with any type of excursion are identified to the data user. Major excursions will result in data being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Minor excursions will result in sample data being qualified as approximate that are otherwise usable for quantitative or qualitative purposes.
	Excursions are subdivided into excursions that are within the laboratory's control and those that are out of the laboratory's control. Excursions involving laboratory control sample recovery, method blank excursions, low or high spike recovery due to inaccurate spiking solutions or poor instrument response, and holding times are within the control of the laboratory. Excursions resulting from matrix spike recovery, serial dilution recovery, surrogate, and internal standard performance due to matrix interference from the matrix of the samples are examples of those excursions that are not within the laboratory's control if the laboratory has followed proper method control procedures, where applicable.
Parameter	Approach to Data Qualification
Sample Preservation	Results for samples submitted for organic analyses impacted by cooler temperatures of greater than 6 °C are qualified as estimated (UJ, J). Results for samples submitted for inorganic analyses impacted by cooler temperatures of greater than 10 °C are qualified as estimated (J, UJ).
VOC Headspace	Results for sample containers submitted for VOC analysis that contain headspace are noted in the report.*
Re-preparation/Reanalysis	When two results are reported, due to re-preparation or for dilution analyses, both sets of results are evaluated during the validation process. Based on the evaluation of the associated quality control data, the results reflecting the higher quality data are reported.
MS/MSD, LCS, Duplicate Results	Laboratory control limits are used to assess duplicate, surrogate, MS/MSD, and LCS data.
	In the case that excursions are identified in more than one quality control sample of the same matrix within one sample delivery group, samples are batched according to sample preparation or analysis date and qualified accordingly.
	If percent recoveries are less than laboratory control limits but greater than ten percent, detected and non-detected results are qualified as estimated, possibly with a low bias (J-, UJ).
	If percent recoveries are greater than laboratory control limits, detected results are qualified as estimated, possibly with a high bias (J+).
	If percent recoveries are less than ten percent, detected results are qualified as estimated, with a possible low bias (J-) and non-detected results are rejected (R).
MS/MSD Results	Qualification of data for MS/MSD analyses is performed only when both MS and MSD percent recoveries are outside of laboratory control limits.
	Organic data are rejected (R) to indicate major excursions in the case that both MS/MSD recoveries are less than ten percent.
Sample Dilutions	Qualification of data is not performed if MS/MSD or surrogate recoveries are outside of laboratory control limits due to sample dilution.
Organic MS/MSD and Field Duplicate Results	Qualification of data associated with MS/MSD or field duplicate excursions is limited to the un-spiked sample or the field duplicate pair, respectively.
Field Duplicate Results	Field duplicate data are evaluated against relative percent difference (RPD) criteria of less than 30 for aqueous samples when results are greater than five times the reporting limit (RL). When sample results for field duplicate pairs are less than five times the RL, the data are evaluated using a control limit of plus or minus two times the RL. If RPDs for field duplicates exceed 30, detected and non-detected results are qualified as estimated (J, UJ).
Blank Results	If methylene chloride, acetone or 2-butanone is detected in the sample at a concentration that is less than ten times the concentration in the associated blank, the sample result is qualified as estimated (J).
	If other target analytes are detected in the sample at a concentration that is less than five times the concentration detected in the associated blank, the sample result is qualified as estimated (J).
	Results less than the RL are raised to the RL and qualified as not detected (U) at that concentration.
	The highest concentrations of the target analytes are used to evaluate the associated samples.

* Indicates that data validation guidelines do not address this situation. Therefore, validation qualifiers are not applied to data.

October 20, 2021

John McCall
Tetra Tech
1777 Sentry Parkway West
Bldg. 12, Suite 102
Blue Bell, PA 19422

RE: Project: GE Lancaster
Pace Project No.: 30444573

Dear John McCall:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Gus Mergenthaler, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE Lancaster
 Pace Project No.: 30444573

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 04222CA
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 Delaware Certification
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Florida: Cert E871149 SEKS WET
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas/TNI Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA180012
 Louisiana DEQ/TNI Certification #: 4086
 Maine Certification #: 2017020
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572018-1
 New Hampshire/TNI Certification #: 297617
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-010
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: 02867
 Texas/TNI Certification #: T104704188-17-3
 Utah/TNI Certification #: PA014572017-9
 USDA Soil Permit #: P330-17-00091
 Vermont Dept. of Health: ID# VT-0282
 Virgin Island/PADEP Certification
 Virginia/VELAP Certification #: 9526
 Washington Certification #: C868
 West Virginia DEP Certification #: 143
 West Virginia DHHR Certification #: 9964C
 Wisconsin Approve List for Rad
 Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GE Lancaster
Pace Project No.: 30444573

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30444573001	5	Water	10/06/21 12:15	10/08/21 22:15
30444573002	6	Water	10/06/21 14:00	10/08/21 22:15
30444573003	7D	Water	10/07/21 10:40	10/08/21 22:15
30444573004	10D	Water	10/07/21 12:10	10/08/21 22:15
30444573005	12D	Water	10/07/21 14:45	10/08/21 22:15
30444573006	14	Water	10/07/21 15:00	10/08/21 22:15
30444573007	15	Water	10/07/21 15:35	10/08/21 22:15
30444573008	18	Water	10/07/21 14:10	10/08/21 22:15
30444573009	AW-3	Water	10/06/21 15:00	10/08/21 22:15
30444573010	AW-4	Water	10/07/21 11:45	10/08/21 22:15
30444573011	GW-9001	Water	10/07/21 12:45	10/08/21 22:15
30444573012	GW-9004	Water	10/06/21 12:45	10/08/21 22:15
30444573013	GW-9006	Water	10/07/21 14:20	10/08/21 22:15
30444573014	GW-9007	Water	10/05/21 14:00	10/08/21 22:15
30444573015	GW-9008	Water	10/05/21 13:30	10/08/21 22:15
30444573016	Spring 1	Water	10/07/21 11:00	10/08/21 22:15
30444573017	DUP-1	Water	10/07/21 12:00	10/08/21 22:15
30444573018	FB	Water	10/07/21 09:00	10/08/21 22:15
30444573019	GW-9020	Water	10/07/21 12:30	10/08/21 22:15
30444573020	TB (HCl)	Water	10/07/21 14:30	10/08/21 22:15
30444573021	TB (Ascorbic Acid)	Water	10/07/21 14:30	10/08/21 22:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE Lancaster
Pace Project No.: 30444573

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30444573001	5	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573002	6	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573003	7D	EPA 8260B	AJC	9	PASI-PA
30444573004	10D	EPA 8260B	AJC	9	PASI-PA
30444573005	12D	EPA 8260B	AJC	9	PASI-PA
30444573006	14	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573007	15	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573008	18	EPA 8260B	AJC	9	PASI-PA
30444573009	AW-3	EPA 8260B	AJC	9	PASI-PA
30444573010	AW-4	EPA 6010B	CTS	2	PASI-PA
30444573011	GW-9001	EPA 8260B	AJC	9	PASI-PA
		EPA 6010B	CTS	2	PASI-PA
30444573012	GW-9004	EPA 8260B	AJC	9	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573013	GW-9006	EPA 8260B	AJC	9	PASI-PA
30444573014	GW-9007	EPA 8260B	AJC	9	PASI-PA
30444573015	GW-9008	EPA 8260B	AJC	9	PASI-PA
30444573016	Spring 1	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573017	DUP-1	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573018	FB	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573019	GW-9020	EPA 6010B	CTS	2	PASI-PA
		EPA 8260B	AJC	9	PASI-PA
30444573020	TB (HCl)	EPA 8260B	AJC	9	PASI-PA
30444573021	TB (Ascorbic Acid)	EPA 8260B	LEL	9	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 5	Lab ID: 30444573001		Collected: 10/06/21 12:15	Received: 10/08/21 22:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.44J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 10:52	7440-43-9	
Nickel, Dissolved	19.2	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 10:52	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	5720	ug/L	20.0	7.6	20		10/15/21 21:50	156-59-2	
trans-1,2-Dichloroethene	19.7	ug/L	1.0	0.28	1		10/15/21 21:25	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 21:25	127-18-4	
Trichloroethene	34.2	ug/L	1.0	0.29	1		10/15/21 21:25	79-01-6	
Vinyl chloride	2080	ug/L	20.0	5.8	20		10/15/21 21:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 21:25	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%.	70-130		1		10/15/21 21:25	17060-07-0	
Toluene-d8 (S)	90	%.	70-130		1		10/15/21 21:25	2037-26-5	
Dibromofluoromethane (S)	126	%.	70-130		1		10/15/21 21:25	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 6	Lab ID: 30444573002		Collected: 10/06/21 14:00	Received: 10/08/21 22:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.43J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:00	7440-43-9	
Nickel, Dissolved	10.0 U	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:00	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.38	1		10/15/21 14:32	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 14:32	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 14:32	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.29	1		10/15/21 14:32	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 14:32	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1		10/15/21 14:32	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130		1		10/15/21 14:32	17060-07-0	
Toluene-d8 (S)	86	%.	70-130		1		10/15/21 14:32	2037-26-5	
Dibromofluoromethane (S)	118	%.	70-130		1		10/15/21 14:32	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 7D	Lab ID: 30444573003		Collected: 10/07/21 10:40	Received: 10/08/21 22:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0	ug/L	1.0	0.38	1			10/15/21 16:42	156-59-2
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1			10/15/21 16:42	156-60-5
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1			10/15/21 16:42	127-18-4
Trichloroethene	1.0 U	ug/L	1.0	0.29	1			10/15/21 16:42	79-01-6
Vinyl chloride	1.9	ug/L	1.0	0.29	1			10/15/21 16:42	75-01-4
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1			10/15/21 16:42	460-00-4
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1			10/15/21 16:42	17060-07-0
Toluene-d8 (S)	87	%.	70-130		1			10/15/21 16:42	2037-26-5
Dibromofluoromethane (S)	122	%.	70-130		1			10/15/21 16:42	1868-53-7

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 10D	Lab ID: 30444573004	Collected: 10/07/21 12:10	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	2.9	ug/L	1.0	0.38	1		10/15/21 14:58	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 14:58	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 14:58	127-18-4	
Trichloroethene	1.1	ug/L	1.0	0.29	1		10/15/21 14:58	79-01-6	
Vinyl chloride	0.31J	ug/L	1.0	0.29	1		10/15/21 14:58	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		10/15/21 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	70-130		1		10/15/21 14:58	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		10/15/21 14:58	2037-26-5	
Dibromofluoromethane (S)	121	%.	70-130		1		10/15/21 14:58	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 12D	Lab ID: 30444573005	Collected: 10/07/21 14:45	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 15:24	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 15:24	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 15:24	127-18-4	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		10/15/21 15:24	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 15:24	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		10/15/21 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		10/15/21 15:24	17060-07-0	
Toluene-d8 (S)	86	%.	70-130		1		10/15/21 15:24	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 15:24	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 14	Lab ID: 30444573006		Collected: 10/07/21 15:00	Received: 10/08/21 22:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.45J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:03	7440-43-9	
Nickel, Dissolved	11.7	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:03	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	61.2	ug/L	1.0	0.38	1		10/15/21 17:59	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 17:59	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 17:59	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.29	1		10/15/21 17:59	79-01-6	
Vinyl chloride	0.61J	ug/L	1.0	0.29	1		10/15/21 17:59	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 17:59	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		10/15/21 17:59	17060-07-0	
Toluene-d8 (S)	87	%.	70-130		1		10/15/21 17:59	2037-26-5	
Dibromofluoromethane (S)	116	%.	70-130		1		10/15/21 17:59	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 15	Lab ID: 30444573007		Collected: 10/07/21 15:35	Received: 10/08/21 22:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	3.0 U	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:05	7440-43-9	
Nickel, Dissolved	43.6	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:05	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 15:50	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 15:50	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 15:50	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.29	1		10/15/21 15:50	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 15:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		10/15/21 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	70-130		1		10/15/21 15:50	17060-07-0	
Toluene-d8 (S)	88	%.	70-130		1		10/15/21 15:50	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 15:50	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: 18	Lab ID: 30444573008	Collected: 10/07/21 14:10	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	201	ug/L	1.0	0.38	1		10/15/21 18:25	156-59-2	
trans-1,2-Dichloroethene	0.79J	ug/L	1.0	0.28	1		10/15/21 18:25	156-60-5	
Tetrachloroethene	7.9	ug/L	1.0	0.39	1		10/15/21 18:25	127-18-4	
Trichloroethene	157	ug/L	1.0	0.29	1		10/15/21 18:25	79-01-6	
Vinyl chloride	0.92J	ug/L	1.0	0.29	1		10/15/21 18:25	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	70-130		1		10/15/21 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		10/15/21 18:25	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		10/15/21 18:25	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		10/15/21 18:25	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: AW-3	Lab ID: 30444573009	Collected: 10/06/21 15:00	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 16:16	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 16:16	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 16:16	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.29	1		10/15/21 16:16	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 16:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130		1		10/15/21 16:16	17060-07-0	
Toluene-d8 (S)	88	%.	70-130		1		10/15/21 16:16	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		1		10/15/21 16:16	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: AW-4	Lab ID: 30444573010	Collected: 10/07/21 11:45	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.74J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:07	7440-43-9	
Nickel, Dissolved	40.8	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:07	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	10.6	ug/L	1.0	0.38	1		10/15/21 17:07	156-59-2	
trans-1,2-Dichloroethene	0.35J	ug/L	1.0	0.28	1		10/15/21 17:07	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 17:07	127-18-4	
Trichloroethene	16.4	ug/L	1.0	0.29	1		10/15/21 17:07	79-01-6	
Vinyl chloride	0.69J	ug/L	1.0	0.29	1		10/15/21 17:07	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		10/15/21 17:07	17060-07-0	
Toluene-d8 (S)	87	%.	70-130		1		10/15/21 17:07	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 17:07	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9001	Lab ID: 30444573011	Collected: 10/07/21 12:45	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	1.4J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:14	7440-43-9	
Nickel, Dissolved	26.1	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:14	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	440	ug/L	100	38.1	100		10/19/21 00:33	156-59-2	
trans-1,2-Dichloroethene	4.2	ug/L	1.0	0.28	1		10/15/21 19:16	156-60-5	
Tetrachloroethene	2.7	ug/L	1.0	0.39	1		10/15/21 19:16	127-18-4	
Trichloroethene	944	ug/L	100	29.1	100		10/19/21 00:33	79-01-6	
Vinyl chloride	8.5	ug/L	1.0	0.29	1		10/15/21 19:16	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		10/15/21 19:16	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		10/15/21 19:16	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		10/15/21 19:16	2037-26-5	
Dibromofluoromethane (S)	117	%.	70-130		1		10/15/21 19:16	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9004	Lab ID: 30444573012	Collected: 10/06/21 12:45	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	239	ug/L	1.0	0.38	1		10/15/21 19:42	156-59-2	
trans-1,2-Dichloroethene	1.6	ug/L	1.0	0.28	1		10/15/21 19:42	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 19:42	127-18-4	
Trichloroethene	34.9	ug/L	1.0	0.29	1		10/15/21 19:42	79-01-6	
Vinyl chloride	6.6	ug/L	1.0	0.29	1		10/15/21 19:42	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 19:42	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		10/15/21 19:42	17060-07-0	
Toluene-d8 (S)	87	%.	70-130		1		10/15/21 19:42	2037-26-5	
Dibromofluoromethane (S)	118	%.	70-130		1		10/15/21 19:42	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9006	Lab ID: 30444573013	Collected: 10/07/21 14:20	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	211	ug/L	1.0	0.38	1		10/15/21 20:08	156-59-2	
trans-1,2-Dichloroethene	1.9	ug/L	1.0	0.28	1		10/15/21 20:08	156-60-5	
Tetrachloroethene	23.3	ug/L	1.0	0.39	1		10/15/21 20:08	127-18-4	
Trichloroethene	5.0J	ug/L	10.0	2.9	10		10/19/21 00:08	79-01-6	
Vinyl chloride	0.31J	ug/L	1.0	0.29	1		10/15/21 20:08	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		10/15/21 20:08	17060-07-0	
Toluene-d8 (S)	88	%.	70-130		1		10/15/21 20:08	2037-26-5	
Dibromofluoromethane (S)	119	%.	70-130		1		10/15/21 20:08	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9007	Lab ID: 30444573014	Collected: 10/05/21 14:00	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 13:14	156-59-2	MH
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 13:14	156-60-5	MH
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 13:14	127-18-4	
Trichloroethene	0.30J	ug/L	1.0	0.29	1		10/15/21 13:14	79-01-6	MH
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 13:14	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		10/15/21 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		10/15/21 13:14	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		10/15/21 13:14	2037-26-5	
Dibromofluoromethane (S)	118	%.	70-130		1		10/15/21 13:14	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9008	Lab ID: 30444573015	Collected: 10/05/21 13:30	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	226	ug/L	1.0	0.38	1		10/15/21 20:34	156-59-2	
trans-1,2-Dichloroethene	1.2	ug/L	1.0	0.28	1		10/15/21 20:34	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 20:34	127-18-4	
Trichloroethene	27.9	ug/L	1.0	0.29	1		10/15/21 20:34	79-01-6	
Vinyl chloride	16.4	ug/L	1.0	0.29	1		10/15/21 20:34	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	70-130		1		10/15/21 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		10/15/21 20:34	17060-07-0	
Toluene-d8 (S)	87	%.	70-130		1		10/15/21 20:34	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 20:34	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: Spring 1		Lab ID: 30444573016		Collected: 10/07/21 11:00		Received: 10/08/21 22:15		Matrix: Water	
Parameters	Results	Units	Report				Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared			
6010 MET ICP, Dissolved		Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Cadmium, Dissolved	48.2	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:16	7440-43-9	
Nickel, Dissolved	197	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:16	7440-02-0	
8260B MSV		Analytical Method: EPA 8260B Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	14.9	ug/L	1.0	0.38	1		10/15/21 17:33	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 17:33	156-60-5	
Tetrachloroethene	1.0	ug/L	1.0	0.39	1		10/15/21 17:33	127-18-4	
Trichloroethene	32.0	ug/L	1.0	0.29	1		10/15/21 17:33	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 17:33	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	108	%.	70-130		1		10/15/21 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%.	70-130		1		10/15/21 17:33	17060-07-0	
Toluene-d8 (S)	90	%.	70-130		1		10/15/21 17:33	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 17:33	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: DUP-1	Lab ID: 30444573017	Collected: 10/07/21 12:00	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.71J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:18	7440-43-9	
Nickel, Dissolved	41.4	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:18	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	7.6	ug/L	1.0	0.38	1		10/15/21 20:59	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 20:59	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 20:59	127-18-4	
Trichloroethene	10.7	ug/L	1.0	0.29	1		10/15/21 20:59	79-01-6	
Vinyl chloride	0.62J	ug/L	1.0	0.29	1		10/15/21 20:59	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	111	%.	70-130		1		10/15/21 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%.	70-130		1		10/15/21 20:59	17060-07-0	
Toluene-d8 (S)	87	%.	70-130		1		10/15/21 20:59	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 20:59	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: FB	Lab ID: 30444573018	Collected: 10/07/21 09:00	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	3.0 U	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:20	7440-43-9	
Nickel, Dissolved	10.0 U	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:20	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 14:06	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 14:06	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 14:06	127-18-4	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		10/15/21 14:06	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 14:06	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 14:06	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130		1		10/15/21 14:06	17060-07-0	
Toluene-d8 (S)	91	%.	70-130		1		10/15/21 14:06	2037-26-5	
Dibromofluoromethane (S)	117	%.	70-130		1		10/15/21 14:06	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: GW-9020	Lab ID: 30444573019	Collected: 10/07/21 12:30	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium, Dissolved	0.52J	ug/L	3.0	0.34	1	10/14/21 10:24	10/15/21 11:22	7440-43-9	
Nickel, Dissolved	27.7	ug/L	10.0	1.5	1	10/14/21 10:24	10/15/21 11:22	7440-02-0	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	215	ug/L	1.0	0.38	1		10/15/21 18:51	156-59-2	
trans-1,2-Dichloroethene	11.3	ug/L	1.0	0.28	1		10/15/21 18:51	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 18:51	127-18-4	
Trichloroethene	60.1	ug/L	1.0	0.29	1		10/15/21 18:51	79-01-6	
Vinyl chloride	29.4	ug/L	1.0	0.29	1		10/15/21 18:51	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	70-130		1		10/15/21 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		10/15/21 18:51	17060-07-0	
Toluene-d8 (S)	90	%.	70-130		1		10/15/21 18:51	2037-26-5	
Dibromofluoromethane (S)	120	%.	70-130		1		10/15/21 18:51	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: TB (HCl)	Lab ID: 30444573020	Collected: 10/07/21 14:30	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/15/21 13:40	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/15/21 13:40	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/15/21 13:40	127-18-4	
Trichloroethene	0.35J	ug/L	1.0	0.29	1		10/15/21 13:40	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/15/21 13:40	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		10/15/21 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		10/15/21 13:40	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		10/15/21 13:40	2037-26-5	
Dibromofluoromethane (S)	117	%.	70-130		1		10/15/21 13:40	1868-53-7	

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ANALYTICAL RESULTS

Project: GE Lancaster
Pace Project No.: 30444573

Sample: TB (Ascorbic Acid)	Lab ID: 30444573021	Collected: 10/07/21 14:30	Received: 10/08/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		10/19/21 15:54	156-59-2	M5
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/19/21 15:54	156-60-5	M5
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/19/21 15:54	127-18-4	M5
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		10/19/21 15:54	79-01-6	M5
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/19/21 15:54	75-01-4	M5
Surrogates									
4-Bromofluorobenzene (S)	96	%.	70-130		1		10/19/21 15:54	460-00-4	M5
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		10/19/21 15:54	17060-07-0	M5
Toluene-d8 (S)	97	%.	70-130		1		10/19/21 15:54	2037-26-5	M5
Dibromofluoromethane (S)	110	%.	70-130		1		10/19/21 15:54	1868-53-7	M5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster
Pace Project No.: 30444573

QC Batch:	468151	Analysis Method:	EPA 6010B
QC Batch Method:	EPA 3005A	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30444573001, 30444573002, 30444573006, 30444573007, 30444573010, 30444573011, 30444573016, 30444573017, 30444573018, 30444573019		

METHOD BLANK: 2260268 Matrix: Water

Associated Lab Samples: 30444573001, 30444573002, 30444573006, 30444573007, 30444573010, 30444573011, 30444573016,
30444573017, 30444573018, 30444573019

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Cadmium, Dissolved	ug/L	3.0 U	3.0	0.34	10/15/21 10:48	
Nickel, Dissolved	ug/L	10.0 U	10.0	1.5	10/15/21 10:48	

LABORATORY CONTROL SAMPLE: 2260269

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Cadmium, Dissolved	ug/L	500	474	95	80-120	
Nickel, Dissolved	ug/L	500	478	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2260271 2260272

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		30444573001	Spike	Spike	Result	Result	% Rec	Limits	RPD	RPD	Qual	
Cadmium, Dissolved	ug/L	0.44J	500	500	536	516	107	75-125	4	20		
Nickel, Dissolved	ug/L	19.2	500	500	541	521	104	75-125	4	20		

SAMPLE DUPLICATE: 2260270

Parameter	Units	30444573001	Dup	RPD	Max	RPD	Qualifiers
		Result	Result				
Cadmium, Dissolved	ug/L	0.44J	3.0 U		20		
Nickel, Dissolved	ug/L	19.2	18.5	4	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: GE Lancaster
Pace Project No.: 30444573

QC Batch:	468398	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30444573001, 30444573002, 30444573003, 30444573004, 30444573005, 30444573006, 30444573007, 30444573008, 30444573009, 30444573010, 30444573011, 30444573012, 30444573013, 30444573014, 30444573015, 30444573016, 30444573017, 30444573018, 30444573019, 30444573020		

METHOD BLANK: 2261633 Matrix: Water

Associated Lab Samples: 30444573001, 30444573002, 30444573003, 30444573004, 30444573005, 30444573006, 30444573007,
30444573008, 30444573009, 30444573010, 30444573011, 30444573012, 30444573013, 30444573014,
30444573015, 30444573016, 30444573017, 30444573018, 30444573019, 30444573020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/15/21 12:48	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/15/21 12:48	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/15/21 12:48	
Trichloroethene	ug/L	0.31J	1.0	0.29	10/15/21 12:48	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/15/21 12:48	
1,2-Dichloroethane-d4 (S)	%.	114	70-130		10/15/21 12:48	
4-Bromofluorobenzene (S)	%.	106	70-130		10/15/21 12:48	
Dibromofluoromethane (S)	%.	116	70-130		10/15/21 12:48	
Toluene-d8 (S)	%.	90	70-130		10/15/21 12:48	

LABORATORY CONTROL SAMPLE: 2261634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	21.5	108	70-130	
Tetrachloroethene	ug/L	20	21.6	108	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.1	116	70-130	
Trichloroethene	ug/L	20	25.6	128	70-130	
Vinyl chloride	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%.			113	70-130	
4-Bromofluorobenzene (S)	%.			108	70-130	
Dibromofluoromethane (S)	%.			112	70-130	
Toluene-d8 (S)	%.			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2261635 2261636

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30444573014	Spike Result	Spike Conc.	MS Result						
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	22.1	25.1	109	124	63-116	13	30 MH
Tetrachloroethene	ug/L	1.0 U	20	20	18.5	23.5	93	117	61-132	24	30
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	22.7	26.2	113	131	60-124	14	30 MH
Trichloroethene	ug/L	0.30J	20	20	23.9	29.7	118	147	63-128	21	30 MH
Vinyl chloride	ug/L	1.0 U	20	20	19.7	22.4	98	112	67-141	13	30
1,2-Dichloroethane-d4 (S)	%.						115	116	70-130		
4-Bromofluorobenzene (S)	%.						106	105	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: GE Lancaster
Pace Project No.: 30444573

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2261635		2261636							
Parameter	Units	30444573014	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						118	115	70-130			
Toluene-d8 (S)	%.						90	90	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster
Pace Project No.: 30444573

QC Batch:	468818	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples: 30444573021			

METHOD BLANK: 2263705 Matrix: Water

Associated Lab Samples: 30444573021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/19/21 13:48	M5
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/19/21 13:48	M5
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/19/21 13:48	M5
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/19/21 13:48	M5
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/19/21 13:48	M5
1,2-Dichloroethane-d4 (S)	%.	108	70-130		10/19/21 13:48	M5
4-Bromofluorobenzene (S)	%.	104	70-130		10/19/21 13:48	M5
Dibromofluoromethane (S)	%.	103	70-130		10/19/21 13:48	M5
Toluene-d8 (S)	%.	99	70-130		10/19/21 13:48	M5

LABORATORY CONTROL SAMPLE: 2263706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	19.4	97	70-130	M5
Tetrachloroethene	ug/L	20	17.5	88	70-130	M5
trans-1,2-Dichloroethene	ug/L	20	20.7	103	70-130	M5
Trichloroethene	ug/L	20	19.9	99	70-130	M5
Vinyl chloride	ug/L	20	18.4	92	70-130	M5
1,2-Dichloroethane-d4 (S)	%.			105	70-130	M5
4-Bromofluorobenzene (S)	%.			97	70-130	M5
Dibromofluoromethane (S)	%.			98	70-130	M5
Toluene-d8 (S)	%.			103	70-130	M5

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QUALIFIERS

Project: GE Lancaster
Pace Project No.: 30444573

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 30444573021

[1] The pH of the VOA vial used for analysis was 4.

BATCH QUALIFIERS

Batch: 468818

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE Lancaster
Pace Project No.: 30444573

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30444573001	5	EPA 3005A	468151	EPA 6010B	468286
30444573002	6	EPA 3005A	468151	EPA 6010B	468286
30444573006	14	EPA 3005A	468151	EPA 6010B	468286
30444573007	15	EPA 3005A	468151	EPA 6010B	468286
30444573010	AW-4	EPA 3005A	468151	EPA 6010B	468286
30444573011	GW-9001	EPA 3005A	468151	EPA 6010B	468286
30444573016	Spring 1	EPA 3005A	468151	EPA 6010B	468286
30444573017	DUP-1	EPA 3005A	468151	EPA 6010B	468286
30444573018	FB	EPA 3005A	468151	EPA 6010B	468286
30444573019	GW-9020	EPA 3005A	468151	EPA 6010B	468286
30444573001	5	EPA 8260B	468398		
30444573002	6	EPA 8260B	468398		
30444573003	7D	EPA 8260B	468398		
30444573004	10D	EPA 8260B	468398		
30444573005	12D	EPA 8260B	468398		
30444573006	14	EPA 8260B	468398		
30444573007	15	EPA 8260B	468398		
30444573008	18	EPA 8260B	468398		
30444573009	AW-3	EPA 8260B	468398		
30444573010	AW-4	EPA 8260B	468398		
30444573011	GW-9001	EPA 8260B	468398		
30444573012	GW-9004	EPA 8260B	468398		
30444573013	GW-9006	EPA 8260B	468398		
30444573014	GW-9007	EPA 8260B	468398		
30444573015	GW-9008	EPA 8260B	468398		
30444573016	Spring 1	EPA 8260B	468398		
30444573017	DUP-1	EPA 8260B	468398		
30444573018	FB	EPA 8260B	468398		
30444573019	GW-9020	EPA 8260B	468398		
30444573020	TB (HCl)	EPA 8260B	468398		
30444573021	TB (Ascorbic Acid)	EPA 8260B	468818		

REPORT OF LABORATORY ANALYSIS

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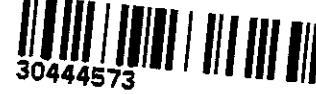


Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found in the attached document.

CHAIN-OF-CUSTODY / Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All

WO# : 30444573



30444573

Of 2

Section A

Required Client Information:

Company: Tetra Tech
Address: 1777 Sentry Parkway West
Bldg. 12, Suite 102, Blue Bell, PA 19422
Email: john.mccall@tetratech.com
Phone: (215)646-3951 Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: John McCall
Copy To:
Purchase Order #:
Project Name: GE Lancaster
Project #: 9125

Section C

Invoice Information:

Attention: Company Name:
Address:
Pace Quote:
Pace Project Manager: kimberley.mack@pacelabs.com,
Pace Profile #: 9125
Regulatory Agency:
State / Location: PA

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique</small>	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	
					START			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	V/N	Analyses Test	
					DATE	TIME	DATE	TIME										
1	5		WT	10/6/21	1215											X	VOC by 8260	001
2	6		WT	10/6/21	1400											X	Trip BLANK	002
3	7D		WT	10/7/21	1040											X	Dissolved Metals by 6010 FIF	003
4	10D		WT	10/7/21	1210											X		004
5	11S		WT	10/7/21	1400											X		S)
6	12D		WT	10/7/21	1445											X		005
7	14		WT	10/7/21	1500											X		006
8	15		WT	10/7/21	1935											X		007
9	18		WT	10/7/21	1410											X		008
10	AW-3		WT	10/6/21	1500											X		009
11	AW-4		WT	10/7/21	1145											X		010
12	GW-8001		WT	10/7/21	1215											X		011
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS						
				Markus Ehr Biomer RE Tetra Tech		10/8/21	1241	M/PACE		10/8/21	1241							
				MS/PACE		10/8/21	1845	RDS PACE		10/8/21	1840							
				RDS PACE		10/8/21	0315	Jenifer T/B		10/8/21	0315	5.5 Y N Y						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
-----------	-----------------------------	--------------------------------------	----------------------------



Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Term:

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

WO# : 30444573

PM: MS1

Due Date: 10/18/21

CLIENT: TETRATECH DE

erms.pdf.

Section A		Section B		Section C			
Required Client Information:		Required Project Information:		Invoice Information			
Company: Tetra Tech	Report To: John McCall	Attention:		Company Name:		Age :	2 Of 2
Address: 1777 Sentry Parkway West Bldg. 12, Suite 102, Blue Bell, PA 19422	Copy To:	Address:		Pace Quote:		Regulatory Agency:	
Email: john.mccall@tetrtech.com	Purchase Order #:	Pace Project Manager:	kimberley.mack@pacelabs.com,	Pace Profile #:	9125	State / Location:	PA
Phone: (215)648-3951	Fax:	Project Name:	GE Lancaster				
Requested Due Date:	Project #:						

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives				Analysis Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
				START		END				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260	Trip BLANK	Dissolved Metals by 6010 F		
				DATE	TIME	DATE	TIME														
13	GW-9004	WT	10/6/21	1245													x			012	
14	GW-9006	WT	10/7/21	1420													x			013	
15	GW-9007	WT	10/5/21	1400													x			014	
16	GW-9008	WT	10/6/21	1330													x			015	
17	Spring 1	WT	10/7/21	1100													x	x		016	
18	DUP-1	WT	10/7/21	1200													x	x		017	
19	FB	WT	10/7/21	0700													x	x		018	
20	GW-9020	WT	10/7/21	1230													x	x		019	
21	TB	WT	10/7/21	1430													x	x		HCl TB	
22																				Ascorbic Acid TB	
23																				020	
24																				021	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS						
			Marko Eric Blanca/Tetra Tech				10/8/21	1241	Mr./PACE				10/8/21	1241							
			WTPACE				10/8/21	1815	RDS PACE				10/8/21	1840							
			RDS PACE				10/8/21	2215	James R				10/8/21	2215	S.S Y N Y						

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)
-----------	-----------------------	----------------------	----------------------

Pittsburgh Lab Sample Condition Upon Receipt

Client Name: Tetra Tech Project # _____Courier: FedEx UPS USPS Client Commercial Pace Other _____
Tracking #: NA

Label <u>JUB</u>
LIMS Login <u>ja</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noThermometer Used 11 Type of Ice: Wet Blue NoneCooler Temperature Observed Temp 5.8 °C Correction Factor: -0.3 °C Final Temp: 5.5 °C

Temp should be above freezing to 6°C

WO# : 30444573

PM: MS1

Due Date: 10/18/21

CLIENT: TETRATECH DE

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:	
Chain of Custody Present:	/			<u>10004111</u>	<u>ja</u>	
Chain of Custody Filled Out:		/		1.		
Chain of Custody Relinquished:	/			2. <u>no preservatives</u>		
Sampler Name & Signature on COC:	/			3.		
Sample Labels match COC:	/	/		4.		
-Includes date/time/ID				5.		
Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	/			6.		
Short Hold Time Analysis (<72hr remaining):	/			7.		
Rush Turn Around Time Requested:	/			8.		
Sufficient Volume:	/			9.		
Correct Containers Used:	/			10.		
-Pace Containers Used:	/					
Containers Intact:	/			11.		
Orthophosphate field filtered		/		12.		
Hex Cr Aqueous sample field filtered		/		13.		
Organic Samples checked for dechlorination:		/		14.		
Filtered volume received for Dissolved tests	/			15.		
All containers have been checked for preservation.	/	/		16.		
exceptions: <u>VOA</u> , coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix						
All containers meet method preservation requirements.	/			Initial when completed: <u>JUB</u>	Date/time of preservation	
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):		/		17.		
Trip Blank Present:	/			18. <u>no Pace provided</u>		
Trip Blank Custody Seals Present	/					
Rad Samples Screened < 0.5 mrem/hr		/		Initial when completed:	Date:	Survey Meter SN:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: - Sample 15 has collection time off ISMO on labels
- Only received vials for sample TB (HCl + Ascorbic Acid)

A check in this box indicates that additional information has been stored in eReports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

LABORATORY DATA PACKAGES – PLANT SAMPLING

August 12, 2021
October 20, 2021

August 18, 2021

John McCall
Tetra Tech
1777 Sentry Parkway West
Bldg. 12, Suite 102
Blue Bell, PA 19422

RE: Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Dear John McCall:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Gus Mergenthaler, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE Lancaster 3Q plant
 Pace Project No.: 30435668

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601	Missouri Certification #: 235
ANAB DOD-ELAP Rad Accreditation #: L2417	Montana Certification #: Cert0082
Alabama Certification #: 41590	Nebraska Certification #: NE-OS-29-14
Arizona Certification #: AZ0734	Nevada Certification #: PA014572018-1
Arkansas Certification	New Hampshire/TNI Certification #: 297617
California Certification #: 04222CA	New Jersey/TNI Certification #: PA051
Colorado Certification #: PA01547	New Mexico Certification #: PA01457
Connecticut Certification #: PH-0694	New York/TNI Certification #: 10888
Delaware Certification	North Carolina Certification #: 42706
EPA Region 4 DW Rad	North Dakota Certification #: R-190
Florida/TNI Certification #: E87683	Ohio EPA Rad Approval: #41249
Georgia Certification #: C040	Oregon/TNI Certification #: PA200002-010
Florida: Cert E871149 SEKS WET	Pennsylvania/TNI Certification #: 65-00282
Guam Certification	Puerto Rico Certification #: PA01457
Hawaii Certification	Rhode Island Certification #: 65-00282
Idaho Certification	South Dakota Certification
Illinois Certification	Tennessee Certification #: 02867
Indiana Certification	Texas/TNI Certification #: T104704188-17-3
Iowa Certification #: 391	Utah/TNI Certification #: PA014572017-9
Kansas/TNI Certification #: E-10358	USDA Soil Permit #: P330-17-00091
Kentucky Certification #: KY90133	Vermont Dept. of Health: ID# VT-0282
KY WW Permit #: KY0098221	Virgin Island/PADEP Certification
KY WW Permit #: KY0000221	Virginia/VELAP Certification #: 9526
Louisiana DHH/TNI Certification #: LA180012	Washington Certification #: C868
Louisiana DEQ/TNI Certification #: 4086	West Virginia DEP Certification #: 143
Maine Certification #: 2017020	West Virginia DHHR Certification #: 9964C
Maryland Certification #: 308	Wisconsin Approve List for Rad
Massachusetts Certification #: M-PA1457	Wyoming Certification #: 8TMS-L
Michigan/PADEP Certification #: 9991	

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30435668001	INF-2021-3Q	Water	08/12/21 08:15	08/12/21 22:30
30435668002	EFF-2021-3Q	Water	08/12/21 08:10	08/12/21 22:30
30435668003	TB-2021 3Q	Water	08/12/21 00:01	08/12/21 22:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30435668001	INF-2021-3Q	EPA 8260B	JAS	9	PASI-PA
30435668002	EFF-2021-3Q	EPA 8260B	JAS	9	PASI-PA
30435668003	TB-2021 3Q	EPA 8260B	JAS	9	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Sample: INF-2021-3Q		Lab ID: 30435668001		Collected: 08/12/21 08:15		Received: 08/12/21 22:30		Matrix: Water								
Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual							
			Limit													
8260B MSV		Analytical Method: EPA 8260B														
		Pace Analytical Services - Greensburg														
cis-1,2-Dichloroethene	198	ug/L	1.0	0.38	1		08/17/21 15:50	156-59-2								
trans-1,2-Dichloroethene	0.92J	ug/L	1.0	0.28	1		08/17/21 15:50	156-60-5								
Tetrachloroethene	2.5	ug/L	1.0	0.39	1		08/17/21 15:50	127-18-4								
Trichloroethene	304	ug/L	1.0	0.29	1		08/17/21 15:50	79-01-6								
Vinyl chloride	2.1	ug/L	1.0	0.29	1		08/17/21 15:50	75-01-4								
Surrogates																
4-Bromofluorobenzene (S)	100	%.	70-130		1		08/17/21 15:50	460-00-4								
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		08/17/21 15:50	17060-07-0								
Toluene-d8 (S)	97	%.	70-130		1		08/17/21 15:50	2037-26-5								
Dibromofluoromethane (S)	106	%.	70-130		1		08/17/21 15:50	1868-53-7								

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Sample: EFF-2021-3Q Lab ID: 30435668002 Collected: 08/12/21 08:10 Received: 08/12/21 22:30 Matrix: Water

Parameters	Results	Units	Report		Prepared	Analyzed	CAS No.	Qual						
			Limit	MDL										
8260B MSV														
Analytical Method: EPA 8260B Pace Analytical Services - Greensburg														
cis-1,2-Dichloroethene	1.8	ug/L	1.0	0.38	1		08/17/21 12:08	156-59-2						
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		08/17/21 12:08	156-60-5						
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		08/17/21 12:08	127-18-4						
Trichloroethene	1.9	ug/L	1.0	0.29	1		08/17/21 12:08	79-01-6						
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		08/17/21 12:08	75-01-4						
Surrogates														
4-Bromofluorobenzene (S)	101	%.	70-130		1		08/17/21 12:08	460-00-4						
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1		08/17/21 12:08	17060-07-0						
Toluene-d8 (S)	95	%.	70-130		1		08/17/21 12:08	2037-26-5						
Dibromofluoromethane (S)	104	%.	70-130		1		08/17/21 12:08	1868-53-7						

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster 3Q plant
Pace Project No.: 30435668

Sample: TB-2021 3Q	Lab ID: 30435668003	Collected: 08/12/21 00:01	Received: 08/12/21 22:30	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		08/17/21 10:54	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		08/17/21 10:54	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		08/17/21 10:54	127-18-4	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		08/17/21 10:54	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		08/17/21 10:54	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	70-130		1		08/17/21 10:54	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1		08/17/21 10:54	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		1		08/17/21 10:54	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		08/17/21 10:54	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster 3Q plant

Pace Project No.: 30435668

QC Batch: 460277 Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B Analysis Description: 8260B MSV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30435668001, 30435668002, 30435668003

METHOD BLANK: 2222292 Matrix: Water

Associated Lab Samples: 30435668001, 30435668002, 30435668003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	08/17/21 10:30	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	08/17/21 10:30	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	08/17/21 10:30	
Trichloroethene	ug/L	1.0 U	1.0	0.29	08/17/21 10:30	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	08/17/21 10:30	
1,2-Dichloroethane-d4 (S)	%.	101	70-130		08/17/21 10:30	
4-Bromofluorobenzene (S)	%.	108	70-130		08/17/21 10:30	
Dibromofluoromethane (S)	%.	105	70-130		08/17/21 10:30	
Toluene-d8 (S)	%.	98	70-130		08/17/21 10:30	

LABORATORY CONTROL SAMPLE: 2222293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	20.7	104	70-130	
Tetrachloroethene	ug/L	20	21.5	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
Trichloroethene	ug/L	20	21.8	109	70-130	
Vinyl chloride	ug/L	20	21.7	108	70-130	
1,2-Dichloroethane-d4 (S)	%.			108	70-130	
4-Bromofluorobenzene (S)	%.			107	70-130	
Dibromofluoromethane (S)	%.			107	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2223736 2223737

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		30435668002	Spike Conc.	Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	RPD				
cis-1,2-Dichloroethene	ug/L	1.8	20	20	22.0	24.2	101	112	63-116	10	30		
Tetrachloroethene	ug/L	1.0 U	20	20	19.5	20.8	98	104	61-132	6	30		
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	20.4	22.9	102	114	60-124	11	30		
Trichloroethene	ug/L	1.9	20	20	23.7	26.5	109	123	63-128	11	30		
Vinyl chloride	ug/L	1.0 U	20	20	24.4	25.6	122	128	67-141	5	30		
1,2-Dichloroethane-d4 (S)	%.						109	118	70-130				
4-Bromofluorobenzene (S)	%.						99	106	70-130				
Dibromofluoromethane (S)	%.						107	112	70-130				
Toluene-d8 (S)	%.						96	98	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE Lancaster 3Q plant

Pace Project No.: 30435668

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE Lancaster 3Q plant
 Pace Project No.: 30435668

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30435668001	INF-2021-3Q	EPA 8260B	460277		
30435668002	EFF-2021-3Q	EPA 8260B	460277		
30435668003	TB-2021 3Q	EPA 8260B	460277		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO# : 30435668


30435668
Section A
Required Client Information:

Company: Tetra Tech	Report To: John McCall
Address: 1777 Sentry Parkway	Copy To:
Building 12, Suite 102, Blue Bell, PA 19422	
Email: John.mccall@tetratech.com	Purchase Order #:
Phone: (302)738-7551	Project Name: GE Lancaster 3Q plant
Requested Due Date:	Project #:

Section B
Required Project Information:
Section C
Invoice Information:

Attention:	Company Name:
Address:	Pace Quote:
Pace Project Manager:	megan.smetanka@pacelabs.com
Pace Profile #:	5358, 5

Regulatory Agency
State/Location

PA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) (G=GRAB O=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test VOC by 8260	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)				
					DATE	TIME	DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ SO ₃	Methanol		Other	Y	N	Y		N			
1	INF-2021-3Q	WT	8/12/21 0815																	X					001	
2	EFF-2021-3Q	WT	8/12/21 0810																	X						002
3	TB-2021 3Q	WT																		X						
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS				TEMP in C	Received on (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples In tact (Y/N)						
				<i>John</i>		8/12/21	0955	<i>MS/PACE</i>		8/12/21	0955															
				<i>MS/PACE</i>		8/12/21	1500	<i>RDS PACE</i>		8/12/21	1735															
				<i>RDS PACE</i>		8/12/21	2230	<i>Minimill (Any)</i>		8/12/21	2330															

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

Dave Seaman

DATE Signed:

8/12/21

30435668
PLEASE RETURN
THIS COPY
WITH COC

Pace Container Order #845868

Addresses

Order By :

Company Tetra Tech
 Contact McCall, John
 Email john.mccall@tetrtech.com
 Address 1777 Sentry Parkway West
 Address 2 Bldg. 12, Suite 102
 City Blue Bell
 State PA Zip 19422
 Phone 215-648-3951

Ship To :

Company S&S Technologies, Inc.
 Contact Dave Seaman
 Email ssotech.dave@comcast.net
 Address 63 Forest Knoll Drive
 Address 2 _____
 City Elkton
 State MD Zip 21921
 Phone (410) 299-3125

Return To:

Company Pace Analytical Pittsburgh
 Contact Smetanka, Megan
 Email megan.smetanka@pacelabs.com
 Address 1638 Roseytown Road
 Address 2 Suites 2,3,4
 City Greensburg
 State PA Zip 15601
 Phone (724)850-5600

Info

Project Name	GE Lancaster 3Q plant	Due Date	08/10/2021	Profile	5358, 5	Quote	
Project Manager	Smetanka, Megan	Return Date		Carrier	FedEx Priority Overnight	Location	PA

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

Boxed Cases
 Individually Wrapped
 Grouped By Sample ID/Matrix

Return Shipping Labels

No Shipper
 With Shipper

Misc

Sampling Instructions
 Custody Seal
 Temp. Blanks
 Coolers
 Syringes

Extra Bubble Wrap
 Short Hold/Rush Stickers
 DI Water Liter(s)
 USDA Regulated Soils

COC Options

Number of Blanks
 Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
2	WT	VOC by 8260	3 - 40 ml vials HCl	6	0	052421-3CYR	
1	WT	Trip BLANK	2 40ml Vial with HCL and DI Water	2	0	052421-3CYR	

Hazard Shipping Placard In Place : NO

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	08/10/2021
Prepared By:	David F
Verified By:	George

Sample

Please check "No Signature required" for FedEx delivery

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Pittsburgh Lab Sample Condition Upon Receipt

Client Name: Tetra TechProject # #230435668Courier: FedEx UPS USPS Client Commercial Pace Other _____Tracking #: NIA

Label	<u>MIC</u>
LIMS Login	<u>MIC</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noThermometer Used 13 Type of Ice: Wet Blue NoneCooler Temperature Observed Temp 2.3 °C Correction Factor: 0 °C Final Temp: 2.3 °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>MIC 8/13/02</u>
	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID	Matrix: <u>WT</u>			
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:	/			8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered		/		12.
Hex Cr Aqueous sample field filtered		/		13.
Organic Samples checked for dechlorination:		/		14.
Filtered volume received for Dissolved tests		/		15.
All containers have been checked for preservation.		/		16.
exceptions: <u>VOA</u> , coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	/			Initial when completed: <u>MIC</u> Date/time of preservation: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):		/		17.
Trip Blank Present:	/			18.
Trip Blank Custody Seals Present	/			
Rad Samples Screened < 0.5 mrem/hr		/		Initial when completed: _____ Date: _____ Survey Meter SN: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

_____ A check in this box indicates that additional information has been stored in eReports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

November 02, 2021

John McCall
Tetra Tech
1777 Sentry Parkway West
Bldg. 12, Suite 102
Blue Bell, PA 19422

RE: Project: GE Lancaster Q4
Pace Project No.: 30446518

Dear John McCall:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Gus Mergenthaler, Tetra Tech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE Lancaster Q4
 Pace Project No.: 30446518

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601	Missouri Certification #: 235
ANAB DOD-ELAP Rad Accreditation #: L2417	Montana Certification #: Cert0082
Alabama Certification #: 41590	Nebraska Certification #: NE-OS-29-14
Arizona Certification #: AZ0734	Nevada Certification #: PA014572018-1
Arkansas Certification	New Hampshire/TNI Certification #: 297617
California Certification #: 04222CA	New Jersey/TNI Certification #: PA051
Colorado Certification #: PA01547	New Mexico Certification #: PA01457
Connecticut Certification #: PH-0694	New York/TNI Certification #: 10888
Delaware Certification	North Carolina Certification #: 42706
EPA Region 4 DW Rad	North Dakota Certification #: R-190
Florida/TNI Certification #: E87683	Ohio EPA Rad Approval: #41249
Georgia Certification #: C040	Oregon/TNI Certification #: PA200002-010
Florida: Cert E871149 SEKS WET	Pennsylvania/TNI Certification #: 65-00282
Guam Certification	Puerto Rico Certification #: PA01457
Hawaii Certification	Rhode Island Certification #: 65-00282
Idaho Certification	South Dakota Certification
Illinois Certification	Tennessee Certification #: 02867
Indiana Certification	Texas/TNI Certification #: T104704188-17-3
Iowa Certification #: 391	Utah/TNI Certification #: PA014572017-9
Kansas/TNI Certification #: E-10358	USDA Soil Permit #: P330-17-00091
Kentucky Certification #: KY90133	Vermont Dept. of Health: ID# VT-0282
KY WW Permit #: KY0098221	Virgin Island/PADEP Certification
KY WW Permit #: KY0000221	Virginia/VELAP Certification #: 9526
Louisiana DHH/TNI Certification #: LA180012	Washington Certification #: C868
Louisiana DEQ/TNI Certification #: 4086	West Virginia DEP Certification #: 143
Maine Certification #: 2017020	West Virginia DHHR Certification #: 9964C
Maryland Certification #: 308	Wisconsin Approve List for Rad
Massachusetts Certification #: M-PA1457	Wyoming Certification #: 8TMS-L
Michigan/PADEP Certification #: 9991	

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SAMPLE SUMMARY

Project: GE Lancaster Q4
Pace Project No.: 30446518

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30446518001	INF 202110	Water	10/20/21 08:35	10/20/21 22:00
30446518002	EFF 202110	Water	10/20/21 08:30	10/20/21 22:00
30446518003	TB 202110	Water	10/20/21 00:01	10/20/21 22:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GE Lancaster Q4
Pace Project No.: 30446518

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30446518001	INF 202110	EPA 8260B	JAS	12	PASI-PA
30446518002	EFF 202110	EPA 6010B	CTS	6	PASI-PA
		EPA 8260B	JAS	12	PASI-PA
		SM 3500-CrB-2011	PAS	1	PASI-PA
30446518003	TB 202110	EPA 8260B	JAS	12	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster Q4
Pace Project No.: 30446518

Sample: INF 202110 Lab ID: 30446518001 Collected: 10/20/21 08:35 Received: 10/20/21 22:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual						
			Limit	MDL	DF										
8260B MSV															
Analytical Method: EPA 8260B Pace Analytical Services - Greensburg															
Benzene	1.0 U	ug/L	1.0	0.34	1		10/24/21 05:28	71-43-2							
1,1-Dichloroethene	2.0	ug/L	1.0	0.24	1		10/24/21 05:28	75-35-4							
cis-1,2-Dichloroethene	140	ug/L	1.0	0.38	1		10/24/21 05:28	156-59-2							
trans-1,2-Dichloroethene	0.59J	ug/L	1.0	0.28	1		10/24/21 05:28	156-60-5							
Tetrachloroethene	2.5	ug/L	1.0	0.39	1		10/24/21 05:28	127-18-4							
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		10/24/21 05:28	71-55-6							
Trichloroethene	229	ug/L	1.0	0.29	1		10/24/21 05:28	79-01-6							
Vinyl chloride	1.5	ug/L	1.0	0.29	1		10/24/21 05:28	75-01-4							
Surrogates															
4-Bromofluorobenzene (S)	100	%.	70-130		1		10/24/21 05:28	460-00-4							
1,2-Dichloroethane-d4 (S)	95	%.	70-130		1		10/24/21 05:28	17060-07-0							
Toluene-d8 (S)	97	%.	70-130		1		10/24/21 05:28	2037-26-5							
Dibromofluoromethane (S)	95	%.	70-130		1		10/24/21 05:28	1868-53-7							

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster Q4
Pace Project No.: 30446518

Sample: EFF 202110	Lab ID: 30446518002	Collected: 10/20/21 08:30	Received: 10/20/21 22:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Cadmium	9.2	ug/L	3.0	0.34	1	11/01/21 11:58	11/02/21 13:31	7440-43-9	
Chromium	5.2	ug/L	5.0	0.35	1	11/01/21 11:58	11/02/21 13:31	7440-47-3	
Copper	7.0	ug/L	5.0	2.7	1	11/01/21 11:58	11/02/21 13:31	7440-50-8	
Lead	5.0 U	ug/L	5.0	4.9	1	11/01/21 11:58	11/02/21 13:31	7439-92-1	
Nickel	27.4	ug/L	10.0	1.5	1	11/01/21 11:58	11/02/21 13:31	7440-02-0	
Zinc	78.3	ug/L	10.0	2.4	1	11/01/21 11:58	11/02/21 13:31	7440-66-6	
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Benzene	1.0 U	ug/L	1.0	0.34	1		10/23/21 22:04	71-43-2	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		10/23/21 22:04	75-35-4	
cis-1,2-Dichloroethene	1.0J	ug/L	1.0	0.38	1		10/23/21 22:04	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		10/23/21 22:04	156-60-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		10/23/21 22:04	127-18-4	
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		10/23/21 22:04	71-55-6	
Trichloroethene	0.94J	ug/L	1.0	0.29	1		10/23/21 22:04	79-01-6	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		10/23/21 22:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	70-130		1		10/23/21 22:04	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	70-130		1		10/23/21 22:04	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		10/23/21 22:04	2037-26-5	
Dibromofluoromethane (S)	100	%.	70-130		1		10/23/21 22:04	1868-53-7	
Chromium, Hexavalent	Analytical Method: SM 3500-CrB-2011 Pace Analytical Services - Greensburg								
Chromium, Hexavalent	0.010 U	mg/L	0.010	0.0054	1		10/21/21 00:00	18540-29-9	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE Lancaster Q4
Pace Project No.: 30446518

Sample: TB 202110 Lab ID: 30446518003 Collected: 10/20/21 00:01 Received: 10/20/21 22:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual						
			Limit	MDL	DF										
8260B MSV															
Analytical Method: EPA 8260B Pace Analytical Services - Greensburg															
Benzene	1.0 U	ug/L	1.0	0.34	1			10/23/21 20:46	71-43-2						
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1			10/23/21 20:46	75-35-4						
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1			10/23/21 20:46	156-59-2						
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1			10/23/21 20:46	156-60-5						
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1			10/23/21 20:46	127-18-4						
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1			10/23/21 20:46	71-55-6						
Trichloroethene	1.0 U	ug/L	1.0	0.29	1			10/23/21 20:46	79-01-6						
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1			10/23/21 20:46	75-01-4						
Surrogates															
4-Bromofluorobenzene (S)	96	%.	70-130		1			10/23/21 20:46	460-00-4						
1,2-Dichloroethane-d4 (S)	97	%.	70-130		1			10/23/21 20:46	17060-07-0						
Toluene-d8 (S)	99	%.	70-130		1			10/23/21 20:46	2037-26-5						
Dibromofluoromethane (S)	98	%.	70-130		1			10/23/21 20:46	1868-53-7						

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster Q4

Pace Project No.: 30446518

QC Batch: 470603 Analysis Method: EPA 6010B

QC Batch Method: EPA 3005A Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30446518002

METHOD BLANK: 2271955 Matrix: Water

Associated Lab Samples: 30446518002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cadmium	ug/L	3.0 U	3.0	0.34	11/02/21 13:27	
Chromium	ug/L	5.0 U	5.0	0.35	11/02/21 13:27	
Copper	ug/L	5.0 U	5.0	2.7	11/02/21 13:27	
Lead	ug/L	5.0 U	5.0	4.9	11/02/21 13:27	
Nickel	ug/L	10.0 U	10.0	1.5	11/02/21 13:27	
Zinc	ug/L	10.0 U	10.0	2.4	11/02/21 13:27	

LABORATORY CONTROL SAMPLE: 2271956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	512	102	80-120	
Chromium	ug/L	500	514	103	80-120	
Copper	ug/L	500	524	105	80-120	
Lead	ug/L	500	495	99	80-120	
Nickel	ug/L	500	522	104	80-120	
Zinc	ug/L	500	506	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2271958 2271959

Parameter	Units	30446518002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	9.2	500	500	531	532	104	105	75-125	0	20	
Chromium	ug/L	5.2	500	500	504	507	100	100	75-125	1	20	
Copper	ug/L	7.0	500	500	535	542	106	107	75-125	1	20	
Lead	ug/L	5.0 U	500	500	508	507	101	101	75-125	0	20	
Nickel	ug/L	27.4	500	500	539	542	102	103	75-125	1	20	
Zinc	ug/L	78.3	500	500	560	560	96	96	75-125	0	20	

SAMPLE DUPLICATE: 2271957

Parameter	Units	30446518002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cadmium	ug/L	9.2	9.6	3	20	
Chromium	ug/L	5.2	5.0J		20	
Copper	ug/L	7.0	8.3	17	20	
Lead	ug/L	5.0 U	5.0 U		20	
Nickel	ug/L	27.4	28.5	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster Q4
Pace Project No.: 30446518

SAMPLE DUPLICATE: 2271957

Parameter	Units	30446518002	Dup Result	RPD	Max RPD	Qualifiers
Zinc	ug/L	78.3	80.0	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster Q4

Pace Project No.: 30446518

QC Batch: 469570 Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B Analysis Description: 8260B MSV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30446518001, 30446518002, 30446518003

METHOD BLANK: 2267412 Matrix: Water

Associated Lab Samples: 30446518001, 30446518002, 30446518003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	10/23/21 20:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	10/23/21 20:20	
Benzene	ug/L	1.0 U	1.0	0.34	10/23/21 20:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	10/23/21 20:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	10/23/21 20:20	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	10/23/21 20:20	
Trichloroethene	ug/L	1.0 U	1.0	0.29	10/23/21 20:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	10/23/21 20:20	
1,2-Dichloroethane-d4 (S)	%.	94	70-130		10/23/21 20:20	
4-Bromofluorobenzene (S)	%.	94	70-130		10/23/21 20:20	
Dibromofluoromethane (S)	%.	95	70-130		10/23/21 20:20	
Toluene-d8 (S)	%.	97	70-130		10/23/21 20:20	

LABORATORY CONTROL SAMPLE: 2267413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.4	107	70-130	
1,1-Dichloroethene	ug/L	20	18.9	94	70-130	
Benzene	ug/L	20	20.7	104	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	70-130	
Tetrachloroethene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	70-130	
Trichloroethene	ug/L	20	21.8	109	70-130	
Vinyl chloride	ug/L	20	21.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%.			97	70-130	
4-Bromofluorobenzene (S)	%.			93	70-130	
Dibromofluoromethane (S)	%.			98	70-130	
Toluene-d8 (S)	%.			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2267415 2267416

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	RPD	Max Qual
		30446518002	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.3	99	101	55-146	2	30		
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.0	18.0	90	90	52-119	0	30		
Benzene	ug/L	1.0 U	20	20	18.5	18.7	92	93	50-149	1	30		
cis-1,2-Dichloroethene	ug/L	1.0J	20	20	18.5	18.6	88	88	63-116	0	30		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE Lancaster Q4
Pace Project No.: 30446518

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2267415		2267416									
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30446518002	Spike Conc.	Spike Conc.	MS Result								
Tetrachloroethene	ug/L	1.0 U	20	20	20.1	20.3	101	101	61-132	1	30		
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.4	18.7	92	93	60-124	1	30		
Trichloroethene	ug/L	0.94J	20	20	20.0	21.0	95	100	63-128	5	30		
Vinyl chloride	ug/L	1.0 U	20	20	22.1	22.5	110	113	67-141	2	30		
1,2-Dichloroethane-d4 (S)	%.						95	91	70-130				
4-Bromofluorobenzene (S)	%.						98	96	70-130				
Dibromofluoromethane (S)	%.						94	93	70-130				
Toluene-d8 (S)	%.						97	98	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: GE Lancaster Q4
Pace Project No.: 30446518

QC Batch:	469124	Analysis Method:	SM 3500-CrB-2011
QC Batch Method:	SM 3500-CrB-2011	Analysis Description:	Chromium, Hexavalent by 3500
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30446518002

METHOD BLANK: 2265552 Matrix: Water

Associated Lab Samples: 30446518002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	0.010 U	0.010	0.0054	10/20/21 23:58	1c

LABORATORY CONTROL SAMPLE & LCSD: 2265553 2265554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/L	0.25	0.25	0.25	100	99	85-115	1	20	1c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE Lancaster Q4

Pace Project No.: 30446518

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 469124

[1] Due to limited volume for MS/MSD, LCSD was analyzed

ANALYTE QUALIFIERS

1c Due to limited volume for MS/MSD, LCSD was analyzed

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE Lancaster Q4
 Pace Project No.: 30446518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30446518002	EFF 202110	EPA 3005A	470603	EPA 6010B	470685
30446518001	INF 202110	EPA 8260B	469570		
30446518002	EFF 202110	EPA 8260B	469570		
30446518003	TB 202110	EPA 8260B	469570		
30446518002	EFF 202110	SM 3500-CrB-2011	469124		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request I

WO# : 30446518



Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com>

Section A
Required Client Information:

Section B		Section C	
Required Project Information:		Invoice Information:	
Company: Tetra Tech	Report To: John McCall	Attention:	
Address: 1777 Sentry Parkway West	Copy To:	Company Name:	
Blue Bell, PA 19422		Address:	
Email: john.mccall@tetrtech.com	Purchase Order #:	Pace Quote:	Regulatory Agency
Phone: 215-648-3951	Project Name: GE Lancaster Q4	Pace Project Manager: megan.smetanka@pacelabs.com,	
Fax:	Project #: 5358 L9	Pace Profile #: 5358 L9	State / Location PA
Requested Due Date:			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=CMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test Y/N	Requested Analysis Filtered (Y/N)						PA	
					START		END				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	VOC by 8260 see comment	6010 Cd, Cr, Cu, Pb, Ni, Zn	Hexavalent Chromium	Residual Chlorine (Y/N)				
					DATE	TIME	DATE	TIME																	
1	INF 202110		WT	WT	10/20/21	0835												X							001
2	EFF 202110		WT	WT	10/20/21	0830												X	X	X					002
3	TB 202110		WT															X							003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VOCS by 8260 Benzene,TCE,1,1,1-TCA,PCE,1,1-DCE, Vinyl Chloride, cis-1,2-DCE	<i>John McCall</i>	10/20/21	1110	<i>MS/PACE</i>	10/20/21	1100	
trans-1,2-DCE	<i>MS/PACE</i>	10/20/21	1800	<i>RDS PACE</i>	10/20/21	1830	
Hexavalent Chromium Field Filtered	<i>RDS PACE</i>	10/20/21	1800	<i>Marion J. (Lay)</i>	10/20/21	2200	12 4 N Y

SAMPLER NAME AND SIGNATURE		TEMP in C (Y/N)	Received on Ice (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:		

Dave Seaman

Dave Seaman

DATE Signed: *10/20/21*

Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
------------------	-----------------	-----------------	----------------------------

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Tetra Tech Project # _____

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: NIA

Label	<u>M11</u>
LIMS Login	<u>M11</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 13 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 13 °C Correction Factor: -1 °C Final Temp: 12 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents
Chain of Custody Present:	/			<u>10D0411</u>	<u>M11 10/20/2021</u>
Chain of Custody Filled Out:	/				1.
Chain of Custody Relinquished:	/				2.
Sampler Name & Signature on COC:	/				3.
Sample Labels match COC:	/				4.
-Includes date/time/ID	Matrix: <u>V</u>				5.
Samples Arrived within Hold Time:	/				6.
Short Hold Time Analysis (<72hr remaining):	/				7.
Rush Turn Around Time Requested:		/			8.
Sufficient Volume:	/				9.
Correct Containers Used:	/				10.
-Pace Containers Used:	/				
Containers Intact:	/				11.
Orthophosphate field filtered			/		12.
Hex Cr Aqueous sample field filtered			/		13.
Organic Samples checked for dechlorination:			/		14.
Filtered volume received for Dissolved tests			/		15.
All containers have been checked for preservation.	/				16.
exceptions: <u>VOA</u> , coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	/			Initial when completed <u>M11</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		/			17.
Trip Blank Present:	/				18.
Trip Blank Custody Seals Present	/				
Rad Samples Screened < 0.5 mrem/hr			/	Initial when completed:	Date:
					Survey Meter SN:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO# : 30446518

PM: MS1 Due Date: 10/28/21
CLIENT: TETRATECH DE

LABORATORY DATA PACKAGES – RESIDENTIAL WELL SAMPLING

July 28, 2021
October 5, 2021
November 23, 2021
December 16, 2021

August 09, 2021

John McCall
Tetra Tech
1777 Sentry Parkway West
Blue Bell, PA 19422

RE: Project: GE LANCASTER 7/28
Pace Project No.: 70182232

Dear John McCall:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kimberley M. Mack
kimberley.mack@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GE LANCASTER 7/28
Pace Project No.: 70182232

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) PRE	Lab ID: 70182232001	Collected: 07/28/21 10:01	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Diss Drinking WT	Analytical Method: EPA 200.7 Pace Analytical Services - Melville							
Barium, Dissolved	<200	ug/L	200	1			08/06/21 22:08	7440-39-3
Cadmium, Dissolved	<2.5	ug/L	2.5	1			08/06/21 22:08	7440-43-9
Calcium, Dissolved	75700	ug/L	200	1			08/06/21 22:08	7440-70-2
Chromium, Dissolved	<10.0	ug/L	10.0	1			08/06/21 22:08	7440-47-3
Copper, Dissolved	<20.0	ug/L	20.0	1			08/06/21 22:08	7440-50-8
Iron, Dissolved	<20.0	ug/L	20.0	1			08/06/21 22:08	7439-89-6
Magnesium, Dissolved	37400	ug/L	200	1			08/06/21 22:08	7439-95-4
Manganese, Dissolved	<10.0	ug/L	10.0	1			08/06/21 22:08	7439-96-5
Potassium, Dissolved	3010	ug/L	200	1			08/06/21 22:08	7440-09-7
Silver, Dissolved	<10.0	ug/L	10.0	1			08/06/21 22:08	7440-22-4
Zinc, Dissolved	31.1	ug/L	20.0	1			08/06/21 22:08	7440-66-6
200.8 MET ICP Diss Drinking WT	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Arsenic, Dissolved	<1.0	ug/L	1.0	1			08/03/21 15:01	7440-38-2
Lead, Dissolved	<1.0	ug/L	1.0	1			08/03/21 15:01	7439-92-1
Mercury, Dissolved	<0.20	ug/L	0.20	1			08/03/21 15:01	7439-97-6
Nickel, Dissolved	1.2	ug/L	0.50	1			08/03/21 15:01	7440-02-0
Selenium, Dissolved	<2.0	ug/L	2.0	1			08/03/21 15:01	7782-49-2
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
Benzene	<0.50	ug/L	0.50	1			08/05/21 18:28	71-43-2
Bromobenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	108-86-1
Bromochloromethane	<0.50	ug/L	0.50	1			08/05/21 18:28	74-97-5
Bromodichloromethane	<0.50	ug/L	0.50	1			08/05/21 18:28	75-27-4
Bromoform	<0.50	ug/L	0.50	1			08/05/21 18:28	75-25-2
Bromomethane	<0.50	ug/L	0.50	1			08/05/21 18:28	74-83-9
n-Butylbenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	104-51-8
sec-Butylbenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	135-98-8
tert-Butylbenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	98-06-6
Carbon tetrachloride	<0.50	ug/L	0.50	1			08/05/21 18:28	56-23-5
Chlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	108-90-7
Chloroethane	<0.50	ug/L	0.50	1			08/05/21 18:28	75-00-3
Chloroform	<0.50	ug/L	0.50	1			08/05/21 18:28	67-66-3
Chloromethane	<0.50	ug/L	0.50	1			08/05/21 18:28	74-87-3
2-Chlorotoluene	<0.50	ug/L	0.50	1			08/05/21 18:28	95-49-8
4-Chlorotoluene	<0.50	ug/L	0.50	1			08/05/21 18:28	106-43-4
Dibromochloromethane	<0.50	ug/L	0.50	1			08/05/21 18:28	124-48-1
Dibromomethane	<0.50	ug/L	0.50	1			08/05/21 18:28	74-95-3
1,2-Dichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	95-50-1
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	541-73-1
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:28	106-46-7
Dichlorodifluoromethane	<0.50	ug/L	0.50	1			08/05/21 18:28	75-71-8
1,1-Dichloroethane	<0.50	ug/L	0.50	1			08/05/21 18:28	75-34-3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) PRE	Lab ID: 70182232001	Collected: 07/28/21 10:01	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
1,2-Dichloroethane	<0.50	ug/L	0.50	1		08/05/21 18:28	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:28	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:28	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:28	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:28	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:28	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:28	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:28	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:28	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:28	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50	1		08/05/21 18:28	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50	1		08/05/21 18:28	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50	1		08/05/21 18:28	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50	1		08/05/21 18:28	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50	1		08/05/21 18:28	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	103-65-1	
Styrene	<0.50	ug/L	0.50	1		08/05/21 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1		08/05/21 18:28	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1		08/05/21 18:28	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	1		08/05/21 18:28	127-18-4	
Toluene	<0.50	ug/L	0.50	1		08/05/21 18:28	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	1		08/05/21 18:28		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	87-61-6	
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1		08/05/21 18:28	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1		08/05/21 18:28	79-00-5	
Trichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:28	79-01-6	
Trichlorofluoromethane	<0.50	ug/L	0.50	1		08/05/21 18:28	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:28	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:28	108-67-8	
Vinyl chloride	<0.50	ug/L	0.50	1		08/05/21 18:28	75-01-4	
Xylene (Total)	<0.50	ug/L	0.50	1		08/05/21 18:28	1330-20-7	
m&p-Xylene	<0.50	ug/L	0.50	1		08/05/21 18:28	179601-23-1	
o-Xylene	<0.50	ug/L	0.50	1		08/05/21 18:28	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	112	%	70-130	1		08/05/21 18:28	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130	1		08/05/21 18:28	460-00-4	
120.1 Specific Conductance	Analytical Method: EPA 120.1 Pace Analytical Services - Melville							
Specific Conductance	1210	umhos/cm		1.0	1		07/31/21 08:11	

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) PRE	Lab ID: 70182232001	Collected: 07/28/21 10:01	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Melville							
Turbidity	<1.0	NTU	1.0	1			07/29/21 21:57	
2320B Alkalinity	Analytical Method: SM22 2320B Pace Analytical Services - Melville							
Alkalinity, Total as CaCO3	340	mg/L	1.0	1			07/30/21 16:11	
4500H+ pH, Electrometric	Analytical Method: SM22 4500-H+B Pace Analytical Services - Melville							
pH	6.5	Std. Units	0.10	1			07/30/21 17:08	H3,H6, N3
Temperature, Water (C)	16.3	deg C	0.10	1			07/30/21 17:08	H3,H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Chloride	159	mg/L	10.0	5			08/09/21 10:19	16887-00-6
Fluoride	<0.10	mg/L	0.10	1			08/06/21 01:06	16984-48-8
Sulfate	34.1	mg/L	5.0	1			08/06/21 01:06	14808-79-8

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) MID	Lab ID: 70182232002	Collected: 07/28/21 09:50	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
	Pace Analytical Services - Melville							
Benzene	<0.50	ug/L	0.50	1		08/05/21 18:02	71-43-2	
Bromobenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	108-86-1	
Bromoform	<0.50	ug/L	0.50	1		08/05/21 18:02	74-97-5	
Bromochloromethane	<0.50	ug/L	0.50	1		08/05/21 18:02	75-27-4	
Bromodichloromethane	<0.50	ug/L	0.50	1		08/05/21 18:02	75-25-2	
Bromomethane	<0.50	ug/L	0.50	1		08/05/21 18:02	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50	1		08/05/21 18:02	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	108-90-7	
Chloroethane	<0.50	ug/L	0.50	1		08/05/21 18:02	75-00-3	
Chloroform	<0.50	ug/L	0.50	1		08/05/21 18:02	67-66-3	
Chloromethane	<0.50	ug/L	0.50	1		08/05/21 18:02	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50	1		08/05/21 18:02	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50	1		08/05/21 18:02	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	1		08/05/21 18:02	124-48-1	
Dibromomethane	<0.50	ug/L	0.50	1		08/05/21 18:02	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50	1		08/05/21 18:02	75-71-8	IL
1,1-Dichloroethane	<0.50	ug/L	0.50	1		08/05/21 18:02	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	1		08/05/21 18:02	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:02	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:02	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 18:02	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:02	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:02	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 18:02	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:02	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:02	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 18:02	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50	1		08/05/21 18:02	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50	1		08/05/21 18:02	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50	1		08/05/21 18:02	99-87-6	
Methylene Chloride	<0.50	ug/L	0.50	1		08/05/21 18:02	75-09-2	
Methyl-tert-butyl ether	<0.50	ug/L	0.50	1		08/05/21 18:02	1634-04-4	
n-Propylbenzene	<0.50	ug/L	0.50	1		08/05/21 18:02	103-65-1	
Styrene	<0.50	ug/L	0.50	1		08/05/21 18:02	100-42-5	
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1		08/05/21 18:02	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1		08/05/21 18:02	79-34-5	
Tetrachloroethene	<0.50	ug/L	0.50	1		08/05/21 18:02	127-18-4	
Toluene	<0.50	ug/L	0.50	1		08/05/21 18:02	108-88-3	
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	1		08/05/21 18:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) MID	Lab ID: 70182232002	Collected: 07/28/21 09:50	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:02	87-61-6
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 18:02	120-82-1
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1			08/05/21 18:02	71-55-6
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1			08/05/21 18:02	79-00-5
Trichloroethene	<0.50	ug/L	0.50	1			08/05/21 18:02	79-01-6
Trichlorofluoromethane	<0.50	ug/L	0.50	1			08/05/21 18:02	75-69-4
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1			08/05/21 18:02	96-18-4
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1			08/05/21 18:02	95-63-6
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50	1			08/05/21 18:02	108-67-8
Vinyl chloride	<0.50	ug/L	0.50	1			08/05/21 18:02	75-01-4
Xylene (Total)	<0.50	ug/L	0.50	1			08/05/21 18:02	1330-20-7
m&p-Xylene	<0.50	ug/L	0.50	1			08/05/21 18:02	179601-23-1
o-Xylene	<0.50	ug/L	0.50	1			08/05/21 18:02	95-47-6
Surrogates								
1,2-Dichlorobenzene-d4 (S)	111	%	70-130	1			08/05/21 18:02	2199-69-1
4-Bromofluorobenzene (S)	109	%	70-130	1			08/05/21 18:02	460-00-4

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) POST	Lab ID: 70182232003	Collected: 07/28/21 09:38	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, Drinking Water	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Melville							
Cadmium	<2.5	ug/L	2.5	1	08/05/21 08:24	08/05/21 20:50	7440-43-9	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Nickel	<0.50	ug/L	0.50	1		07/30/21 16:18	7440-02-0	
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
Benzene	<0.50	ug/L	0.50	1		08/05/21 17:36	71-43-2	
Bromobenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	108-86-1	
Bromochloromethane	<0.50	ug/L	0.50	1		08/05/21 17:36	74-97-5	
Bromodichloromethane	<0.50	ug/L	0.50	1		08/05/21 17:36	75-27-4	
Bromoform	<0.50	ug/L	0.50	1		08/05/21 17:36	75-25-2	
Bromomethane	<0.50	ug/L	0.50	1		08/05/21 17:36	74-83-9	
n-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	104-51-8	
sec-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	135-98-8	
tert-Butylbenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	98-06-6	
Carbon tetrachloride	<0.50	ug/L	0.50	1		08/05/21 17:36	56-23-5	
Chlorobenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	108-90-7	
Chloroethane	<0.50	ug/L	0.50	1		08/05/21 17:36	75-00-3	
Chloroform	<0.50	ug/L	0.50	1		08/05/21 17:36	67-66-3	
Chloromethane	<0.50	ug/L	0.50	1		08/05/21 17:36	74-87-3	
2-Chlorotoluene	<0.50	ug/L	0.50	1		08/05/21 17:36	95-49-8	
4-Chlorotoluene	<0.50	ug/L	0.50	1		08/05/21 17:36	106-43-4	
Dibromochloromethane	<0.50	ug/L	0.50	1		08/05/21 17:36	124-48-1	
Dibromomethane	<0.50	ug/L	0.50	1		08/05/21 17:36	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	0.50	1		08/05/21 17:36	75-71-8	IL
1,1-Dichloroethane	<0.50	ug/L	0.50	1		08/05/21 17:36	75-34-3	
1,2-Dichloroethane	<0.50	ug/L	0.50	1		08/05/21 17:36	107-06-2	
1,1-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 17:36	75-35-4	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 17:36	156-59-2	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1		08/05/21 17:36	156-60-5	
1,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 17:36	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 17:36	142-28-9	
2,2-Dichloropropane	<0.50	ug/L	0.50	1		08/05/21 17:36	594-20-7	
1,1-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 17:36	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 17:36	10061-01-5	
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	1		08/05/21 17:36	10061-02-6	
Ethylbenzene	<0.50	ug/L	0.50	1		08/05/21 17:36	100-41-4	
Hexachloro-1,3-butadiene	<0.50	ug/L	0.50	1		08/05/21 17:36	87-68-3	
Isopropylbenzene (Cumene)	<0.50	ug/L	0.50	1		08/05/21 17:36	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	0.50	1		08/05/21 17:36	99-87-6	

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ANALYTICAL RESULTS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Sample: (b) (9) POST	Lab ID: 70182232003	Collected: 07/28/21 09:38	Received: 07/29/21 09:55	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2 Pace Analytical Services - Melville							
Methylene Chloride	<0.50	ug/L	0.50	1			08/05/21 17:36	75-09-2
Methyl-tert-butyl ether	<0.50	ug/L	0.50	1			08/05/21 17:36	1634-04-4
n-Propylbenzene	<0.50	ug/L	0.50	1			08/05/21 17:36	103-65-1
Styrene	<0.50	ug/L	0.50	1			08/05/21 17:36	100-42-5
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1			08/05/21 17:36	630-20-6
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1			08/05/21 17:36	79-34-5
Tetrachloroethene	<0.50	ug/L	0.50	1			08/05/21 17:36	127-18-4
Toluene	<0.50	ug/L	0.50	1			08/05/21 17:36	108-88-3
Total Trihalomethanes (Calc.)	<0.50	ug/L	0.50	1			08/05/21 17:36	
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 17:36	87-61-6
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1			08/05/21 17:36	120-82-1
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1			08/05/21 17:36	71-55-6
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1			08/05/21 17:36	79-00-5
Trichloroethene	<0.50	ug/L	0.50	1			08/05/21 17:36	79-01-6
Trichlorofluoromethane	<0.50	ug/L	0.50	1			08/05/21 17:36	75-69-4
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1			08/05/21 17:36	96-18-4
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1			08/05/21 17:36	95-63-6
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50	1			08/05/21 17:36	108-67-8
Vinyl chloride	<0.50	ug/L	0.50	1			08/05/21 17:36	75-01-4
Xylene (Total)	<0.50	ug/L	0.50	1			08/05/21 17:36	1330-20-7
m&p-Xylene	<0.50	ug/L	0.50	1			08/05/21 17:36	179601-23-1
o-Xylene	<0.50	ug/L	0.50	1			08/05/21 17:36	95-47-6
Surrogates								
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1			08/05/21 17:36	2199-69-1
4-Bromofluorobenzene (S)	111	%	70-130	1			08/05/21 17:36	460-00-4

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch: 220882 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET Dissolved No Prep Drink Water
Associated Lab Samples: 70182232001 Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

METHOD BLANK: 1113511 Matrix: Drinking Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Barium, Dissolved	ug/L	<200	200	08/06/21 21:54	
Cadmium, Dissolved	ug/L	<2.5	2.5	08/06/21 21:54	
Calcium, Dissolved	ug/L	<200	200	08/06/21 21:54	
Chromium, Dissolved	ug/L	<10.0	10.0	08/06/21 21:54	
Copper, Dissolved	ug/L	<20.0	20.0	08/06/21 21:54	
Iron, Dissolved	ug/L	<20.0	20.0	08/06/21 21:54	
Magnesium, Dissolved	ug/L	<200	200	08/06/21 21:54	
Manganese, Dissolved	ug/L	<10.0	10.0	08/06/21 21:54	
Potassium, Dissolved	ug/L	<200	200	08/06/21 21:54	
Silver, Dissolved	ug/L	<10.0	10.0	08/06/21 21:54	
Zinc, Dissolved	ug/L	<20.0	20.0	08/06/21 21:54	

LABORATORY CONTROL SAMPLE: 1113512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	500	493	99	85-115	
Cadmium, Dissolved	ug/L	500	499	100	85-115	
Calcium, Dissolved	ug/L	25000	24500	98	85-115	
Chromium, Dissolved	ug/L	500	495	99	85-115	
Copper, Dissolved	ug/L	500	496	99	85-115	
Iron, Dissolved	ug/L	12500	12500	100	85-115	
Magnesium, Dissolved	ug/L	25000	24600	98	85-115	
Manganese, Dissolved	ug/L	500	496	99	85-115	
Potassium, Dissolved	ug/L	25000	24400	98	85-115	
Silver, Dissolved	ug/L	250	247	99	85-115	
Zinc, Dissolved	ug/L	500	498	100	85-115	

MATRIX SPIKE SAMPLE: 1113515

Parameter	Units	70182063001	Spike	MS	MS	% Rec	
		Result	Conc.	Result	% Rec	Limits	Qualifiers
Barium, Dissolved	ug/L	<200	200	<200	26	70-130	M1
Cadmium, Dissolved	ug/L	<2.5	200	218	109	70-130	
Calcium, Dissolved	ug/L	2270	10000	14900	126	70-130	
Chromium, Dissolved	ug/L	<10.0	200	215	108	70-130	
Copper, Dissolved	ug/L	<20.0	200	224	110	70-130	
Iron, Dissolved	ug/L	<0.020 mg/L	5000	5340	106	70-130	
Magnesium, Dissolved	ug/L	1800	10000	12800	110	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

MATRIX SPIKE SAMPLE: 1113515

Parameter	Units	70182063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	<10.0	200	217	108	70-130	
Potassium, Dissolved	ug/L	1130	10000	11400	103	70-130	
Silver, Dissolved	ug/L	<10.0	100	67.6	67	70-130	M1
Zinc, Dissolved	ug/L	<20.0	200	227	113	70-130	

SAMPLE DUPLICATE: 1113514

Parameter	Units	70182063001 Result	Dup Result	RPD	Qualifiers
Barium, Dissolved	ug/L	<200	<200		
Cadmium, Dissolved	ug/L	<2.5	<2.5		
Calcium, Dissolved	ug/L	2270	1870	19	
Chromium, Dissolved	ug/L	<10.0	<10.0		
Copper, Dissolved	ug/L	<20.0	<20.0		
Iron, Dissolved	ug/L	<0.020 mg/L	39.2		
Magnesium, Dissolved	ug/L	1800	1820	1	
Manganese, Dissolved	ug/L	<10.0	<10.0		
Potassium, Dissolved	ug/L	1130	1070	5	
Silver, Dissolved	ug/L	<10.0	<10.0		
Zinc, Dissolved	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch:	220247	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET ICP Diss Drinking WT
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

METHOD BLANK: 1110333 Matrix: Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<1.0	1.0	08/03/21 14:58	
Lead, Dissolved	ug/L	<1.0	1.0	08/03/21 14:58	
Mercury, Dissolved	ug/L	<0.20	0.20	08/03/21 14:58	
Nickel, Dissolved	ug/L	<0.50	0.50	08/03/21 14:58	
Selenium, Dissolved	ug/L	<2.0	2.0	08/03/21 14:58	

LABORATORY CONTROL SAMPLE: 1110334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	50	50.9	102	85-115	
Lead, Dissolved	ug/L	50	50.4	101	85-115	
Mercury, Dissolved	ug/L	1	1.1	107	85-115	
Nickel, Dissolved	ug/L	50	50.9	102	85-115	
Selenium, Dissolved	ug/L	50	51.0	102	85-115	

MATRIX SPIKE SAMPLE: 1110336

Parameter	Units	70182232001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	<1.0	50	58.4	116	70-130	
Lead, Dissolved	ug/L	<1.0	50	63.0	125	70-130	
Mercury, Dissolved	ug/L	<0.20	0.05	<0.20	56	70-130 M1	
Nickel, Dissolved	ug/L	1.2	50	53.3	104	70-130	
Selenium, Dissolved	ug/L	<2.0	50	62.9	123	70-130	

SAMPLE DUPLICATE: 1110335

Parameter	Units	70182232001 Result	Dup Result	RPD	Qualifiers
Arsenic, Dissolved	ug/L	<1.0	<1.0		
Lead, Dissolved	ug/L	<1.0	<1.0		
Mercury, Dissolved	ug/L	<0.20	<0.20		
Nickel, Dissolved	ug/L	1.2	1.2	1	
Selenium, Dissolved	ug/L	<2.0	<2.0		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch:	219887	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182232003

METHOD BLANK: 1108596 Matrix: Water

Associated Lab Samples: 70182232003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nickel	ug/L	<0.50	0.50	07/30/21 15:44	

LABORATORY CONTROL SAMPLE: 1108597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	50	48.8	98	85-115	

MATRIX SPIKE SAMPLE: 1108599

Parameter	Units	70182157002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	0.78	50	60.8	120	70-130	

MATRIX SPIKE SAMPLE: 1108601

Parameter	Units	70182159004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	<0.50	50	56.9	113	70-130	

SAMPLE DUPLICATE: 1108598

Parameter	Units	70182157002 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	0.78	0.71	9	

SAMPLE DUPLICATE: 1108600

Parameter	Units	70182159004 Result	Dup Result	RPD	Qualifiers
Nickel	ug/L	<0.50	<0.50		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch: 220593

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET Drinking Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70182232003

METHOD BLANK: 1112363

Matrix: Drinking Water

Associated Lab Samples: 70182232003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	08/05/21 20:25	

LABORATORY CONTROL SAMPLE: 1112364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	500	100	85-115	

MATRIX SPIKE SAMPLE: 1112366

Parameter	Units	70182419002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	200	218	109	70-130	

SAMPLE DUPLICATE: 1112365

Parameter	Units	70182419002 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch:	220600	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182232001, 70182232002, 70182232003

METHOD BLANK: 1112384 Matrix: Water

Associated Lab Samples: 70182232001, 70182232002, 70182232003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,1,1-Trichloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,1,2-Trichloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,1-Dichloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,1-Dichloroethene	ug/L	<0.50	0.50	08/05/21 09:11	
1,1-Dichloropropene	ug/L	<0.50	0.50	08/05/21 09:11	
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,2,3-Trichloropropane	ug/L	<0.50	0.50	08/05/21 09:11	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,2,4-Trimethylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,2-Dichlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,2-Dichloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
1,2-Dichloropropane	ug/L	<0.50	0.50	08/05/21 09:11	
1,3,5-Trimethylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,3-Dichlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
1,3-Dichloropropane	ug/L	<0.50	0.50	08/05/21 09:11	
1,4-Dichlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
2,2-Dichloropropane	ug/L	<0.50	0.50	08/05/21 09:11	
2-Chlorotoluene	ug/L	<0.50	0.50	08/05/21 09:11	
4-Chlorotoluene	ug/L	<0.50	0.50	08/05/21 09:11	
Benzene	ug/L	<0.50	0.50	08/05/21 09:11	
Bromobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
Bromochloromethane	ug/L	<0.50	0.50	08/05/21 09:11	
Bromodichloromethane	ug/L	<0.50	0.50	08/05/21 09:11	
Bromoform	ug/L	<0.50	0.50	08/05/21 09:11	
Bromomethane	ug/L	<0.50	0.50	08/05/21 09:11	
Carbon tetrachloride	ug/L	<0.50	0.50	08/05/21 09:11	
Chlorobenzene	ug/L	<0.50	0.50	08/05/21 09:11	
Chloroethane	ug/L	<0.50	0.50	08/05/21 09:11	
Chloroform	ug/L	<0.50	0.50	08/05/21 09:11	
Chloromethane	ug/L	<0.50	0.50	08/05/21 09:11	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50	08/05/21 09:11	
cis-1,3-Dichloropropene	ug/L	<0.50	0.50	08/05/21 09:11	
Dibromochloromethane	ug/L	<0.50	0.50	08/05/21 09:11	
Dibromomethane	ug/L	<0.50	0.50	08/05/21 09:11	
Dichlorodifluoromethane	ug/L	<0.50	0.50	08/05/21 09:11	IL
Ethylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
Hexachloro-1,3-butadiene	ug/L	<0.50	0.50	08/05/21 09:11	
Isopropylbenzene (Cumene)	ug/L	<0.50	0.50	08/05/21 09:11	

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

METHOD BLANK: 1112384 Matrix: Water

Associated Lab Samples: 70182232001, 70182232002, 70182232003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.50	0.50	08/05/21 09:11	
Methyl-tert-butyl ether	ug/L	<0.50	0.50	08/05/21 09:11	
Methylene Chloride	ug/L	<0.50	0.50	08/05/21 09:11	
n-Butylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
n-Propylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
o-Xylene	ug/L	<0.50	0.50	08/05/21 09:11	
p-Isopropyltoluene	ug/L	<0.50	0.50	08/05/21 09:11	
sec-Butylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
Styrene	ug/L	<0.50	0.50	08/05/21 09:11	
tert-Butylbenzene	ug/L	<0.50	0.50	08/05/21 09:11	
Tetrachloroethene	ug/L	<0.50	0.50	08/05/21 09:11	
Toluene	ug/L	<0.50	0.50	08/05/21 09:11	
Total Trihalomethanes (Calc.)	ug/L	<0.50	0.50	08/05/21 09:11	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50	08/05/21 09:11	
trans-1,3-Dichloropropene	ug/L	<0.50	0.50	08/05/21 09:11	
Trichloroethene	ug/L	<0.50	0.50	08/05/21 09:11	
Trichlorofluoromethane	ug/L	<0.50	0.50	08/05/21 09:11	
Vinyl chloride	ug/L	<0.50	0.50	08/05/21 09:11	
Xylene (Total)	ug/L	<0.50	0.50	08/05/21 09:11	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	08/05/21 09:11	
4-Bromofluorobenzene (S)	%	106	70-130	08/05/21 09:11	

LABORATORY CONTROL SAMPLE: 1112385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	7.9	79	70-130	
1,1,1-Trichloroethane	ug/L	10	8.3	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	10	9.1	91	70-130	
1,1,2-Trichloroethane	ug/L	10	9.1	91	70-130	
1,1-Dichloroethane	ug/L	10	8.4	84	70-130	
1,1-Dichloroethene	ug/L	10	8.0	80	70-130	
1,1-Dichloropropene	ug/L	10	8.8	88	70-130	
1,2,3-Trichlorobenzene	ug/L	10	8.7	87	70-130	
1,2,3-Trichloropropane	ug/L	10	9.5	95	70-130	
1,2,4-Trichlorobenzene	ug/L	10	8.8	88	70-130	
1,2,4-Trimethylbenzene	ug/L	10	8.6	86	70-130	
1,2-Dichlorobenzene	ug/L	10	8.5	85	70-130	
1,2-Dichloroethane	ug/L	10	9.7	97	70-130	
1,2-Dichloropropane	ug/L	10	8.7	87	70-130	
1,3,5-Trimethylbenzene	ug/L	10	8.5	85	70-130	
1,3-Dichlorobenzene	ug/L	10	8.5	85	70-130	
1,3-Dichloropropane	ug/L	10	8.9	89	70-130	
1,4-Dichlorobenzene	ug/L	10	8.2	82	70-130	
2,2-Dichloropropane	ug/L	10	8.7	87	70-130	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

LABORATORY CONTROL SAMPLE: 1112385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	10	8.5	85	70-130	
4-Chlorotoluene	ug/L	10	8.3	83	70-130	
Benzene	ug/L	10	8.6	86	70-130	
Bromobenzene	ug/L	10	8.4	84	70-130	
Bromochloromethane	ug/L	10	8.2	82	70-130	
Bromodichloromethane	ug/L	10	8.4	84	70-130	
Bromoform	ug/L	10	8.0	80	70-130	
Bromomethane	ug/L	10	8.7	87	70-130	
Carbon tetrachloride	ug/L	10	7.8	78	70-130	
Chlorobenzene	ug/L	10	8.3	83	70-130	
Chloroethane	ug/L	10	9.6	96	70-130	
Chloroform	ug/L	10	8.9	89	70-130	
Chloromethane	ug/L	10	7.8	78	70-130	
cis-1,2-Dichloroethene	ug/L	10	8.0	80	70-130	
cis-1,3-Dichloropropene	ug/L	10	9.0	90	70-130	
Dibromochloromethane	ug/L	10	7.8	78	70-130	
Dibromomethane	ug/L	10	8.7	87	70-130	
Dichlorodifluoromethane	ug/L	10	7.6	76	70-130 IL	
Ethylbenzene	ug/L	10	8.2	82	70-130	
Hexachloro-1,3-butadiene	ug/L	10	8.9	89	70-130	
Isopropylbenzene (Cumene)	ug/L	10	8.4	84	70-130	
m&p-Xylene	ug/L	20	16.5	82	70-130	
Methyl-tert-butyl ether	ug/L	10	9.3	93	70-130 IH	
Methylene Chloride	ug/L	10	7.5	75	70-130	
n-Butylbenzene	ug/L	10	9.1	91	70-130	
n-Propylbenzene	ug/L	10	8.7	87	70-130	
o-Xylene	ug/L	10	8.4	84	70-130	
p-Isopropyltoluene	ug/L	10	8.3	83	70-130	
sec-Butylbenzene	ug/L	10	8.5	85	70-130	
Styrene	ug/L	10	8.8	88	70-130	
tert-Butylbenzene	ug/L	10	8.0	80	70-130	
Tetrachloroethene	ug/L	10	8.0	80	70-130	
Toluene	ug/L	10	8.5	85	70-130	
Total Trihalomethanes (Calc.)	ug/L		33.1			
trans-1,2-Dichloroethene	ug/L	10	8.0	80	70-130	
trans-1,3-Dichloropropene	ug/L	10	9.2	92	70-130	
Trichloroethene	ug/L	10	8.2	82	70-130	
Trichlorofluoromethane	ug/L	10	9.4	94	70-130	
Vinyl chloride	ug/L	10	8.8	88	70-130	
Xylene (Total)	ug/L	30	24.8	83	70-130	
1,2-Dichlorobenzene-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

SAMPLE DUPLICATE: 1113289

Parameter	Units	70181987003	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50		
1,1,1-Trichloroethane	ug/L	<0.50	<0.50		
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50		
1,1,2-Trichloroethane	ug/L	<0.50	<0.50		
1,1-Dichloroethane	ug/L	<0.50	<0.50		
1,1-Dichloroethene	ug/L	<0.50	<0.50		
1,1-Dichloropropene	ug/L	<0.50	<0.50		
1,2,3-Trichlorobenzene	ug/L	<0.50	<0.50		
1,2,3-Trichloropropane	ug/L	<0.50	<0.50		
1,2,4-Trichlorobenzene	ug/L	<0.50	<0.50		
1,2,4-Trimethylbenzene	ug/L	<0.50	<0.50		
1,2-Dichlorobenzene	ug/L	<0.50	<0.50		
1,2-Dichloroethane	ug/L	<0.50	<0.50		
1,2-Dichloropropene	ug/L	<0.50	<0.50		
1,3,5-Trimethylbenzene	ug/L	<0.50	<0.50		
1,3-Dichlorobenzene	ug/L	<0.50	<0.50		
1,3-Dichloropropane	ug/L	<0.50	<0.50		
1,4-Dichlorobenzene	ug/L	<0.50	<0.50		
2,2-Dichloropropane	ug/L	<0.50	<0.50		
2-Chlorotoluene	ug/L	<0.50	<0.50		
4-Chlorotoluene	ug/L	<0.50	<0.50		
Benzene	ug/L	<0.50	<0.50		
Bromobenzene	ug/L	<0.50	<0.50		
Bromoform	ug/L	<0.50	<0.50		
Bromomethane	ug/L	<0.50	<0.50		
Carbon tetrachloride	ug/L	<0.50	<0.50		
Chlorobenzene	ug/L	<0.50	<0.50		
Chloroethane	ug/L	<0.50	<0.50		
Chloroform	ug/L	1.1	0.91	18	
Chloromethane	ug/L	<0.50	<0.50		
cis-1,2-Dichloroethene	ug/L	<0.50	<0.50		
cis-1,3-Dichloropropene	ug/L	<0.50	<0.50		
Dibromochloromethane	ug/L	<0.50	<0.50		
Dibromomethane	ug/L	<0.50	<0.50		
Dichlorodifluoromethane	ug/L	<0.50	<0.50	IL	
Ethylbenzene	ug/L	<0.50	<0.50		
Hexachloro-1,3-butadiene	ug/L	<0.50	<0.50		
Isopropylbenzene (Cumene)	ug/L	<0.50	<0.50		
m&p-Xylene	ug/L	<0.50	<0.50		
Methyl-tert-butyl ether	ug/L	<0.50	<0.50		
Methylene Chloride	ug/L	<0.50	<0.50		
n-Butylbenzene	ug/L	<0.50	<0.50		
n-Propylbenzene	ug/L	<0.50	<0.50		
o-Xylene	ug/L	<0.50	<0.50		
p-Isopropyltoluene	ug/L	<0.50	<0.50		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28
Pace Project No.: 70182232

SAMPLE DUPLICATE: 1113289

Parameter	Units	70181987003	Dup Result	RPD	Qualifiers
sec-Butylbenzene	ug/L	<0.50	<0.50		
Styrene	ug/L	<0.50	<0.50		
tert-Butylbenzene	ug/L	<0.50	<0.50		
Tetrachloroethene	ug/L	1.3	1.2	14	
Toluene	ug/L	<0.50	<0.50		
Total Trihalomethanes (Calc.)	ug/L	1.1	0.91	18	
trans-1,2-Dichloroethene	ug/L	<0.50	<0.50		
trans-1,3-Dichloropropene	ug/L	<0.50	<0.50		
Trichloroethene	ug/L	3.3	3.3	2	
Trichlorofluoromethane	ug/L	<0.50	<0.50		
Vinyl chloride	ug/L	<0.50	<0.50		
Xylene (Total)	ug/L	<0.50	<0.50		
1,2-Dichlorobenzene-d4 (S)	%	114	114		
4-Bromofluorobenzene (S)	%	118	109		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch: 219985

Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1

Analysis Description: 120.1 Specific Conductance

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

METHOD BLANK: 1109151

Matrix: Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.0	1.0	07/31/21 08:07	

LABORATORY CONTROL SAMPLE: 1109152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	718	712	99	85-115	

SAMPLE DUPLICATE: 1109153

Parameter	Units	Result	Dup Result	RPD	Qualifiers
Specific Conductance	umhos/cm	194	194	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch: 219791 Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

METHOD BLANK: 1108282 Matrix: Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	07/29/21 21:43	

LABORATORY CONTROL SAMPLE: 1108283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	10	10.0	100	90-110	

SAMPLE DUPLICATE: 1108284

Parameter	Units	Result	Dup Result	RPD	Qualifiers
Turbidity	NTU	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28
Pace Project No.: 70182232

QC Batch:	219920	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70182232001		

METHOD BLANK: 1108755 Matrix: Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<1.0	1.0	07/30/21 14:54	

LABORATORY CONTROL SAMPLE: 1108756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	25	23.4	93	85-115	

MATRIX SPIKE SAMPLE: 1108758

Parameter	Units	70182063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	52.4	50	99.9	95	75-125	

SAMPLE DUPLICATE: 1108757

Parameter	Units	70182063001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	52.4	52.6	0	

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch: 219919 Analysis Method: SM22 4500-H+B

QC Batch Method: SM22 4500-H+B Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

SAMPLE DUPLICATE: 1108751

Parameter	Units	70182232001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.5	6.5	0	H3,H6,N3
Temperature, Water (C)	deg C	16.3	16.3	0	H3,H6

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

QC Batch:	220774	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70182232001

METHOD BLANK: 1113129 Matrix: Water

Associated Lab Samples: 70182232001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<2.0	2.0	08/05/21 19:53	
Fluoride	mg/L	<0.10	0.10	08/05/21 19:53	
Sulfate	mg/L	<5.0	5.0	08/05/21 19:53	

LABORATORY CONTROL SAMPLE: 1113130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	9.9	99	90-110	
Fluoride	mg/L	1	1.0	104	90-110	
Sulfate	mg/L	10	9.8	98	90-110	

MATRIX SPIKE SAMPLE: 1113131

Parameter	Units	70181917006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	14.1	10	23.5	93	90-110	
Fluoride	mg/L	<0.10	1	1.0	102	90-110	
Sulfate	mg/L	<5.0	10	9.6	93	90-110	

MATRIX SPIKE SAMPLE: 1113133

Parameter	Units	70182099004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	90.4	10	99.9	95	90-110	
Fluoride	mg/L	0.15	1	1.1	92	90-110	
Sulfate	mg/L	12.5	10	21.8	93	90-110	

SAMPLE DUPLICATE: 1113132

Parameter	Units	70181917006 Result	Dup Result	RPD	Qualifiers
Chloride	mg/L	14.1	14.4	2	
Fluoride	mg/L	<0.10	<0.10		
Sulfate	mg/L	<5.0	<5.0		

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QUALITY CONTROL DATA

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

SAMPLE DUPLICATE: 1113134

Parameter	Units	70182099004	Dup Result	RPD	Qualifiers
Chloride	mg/L	90.4	90.3	0	
Fluoride	mg/L	0.15	<0.10		
Sulfate	mg/L	12.5	12.4	0	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 70182232001

[1] Method 524.2: Sample analyzed with a preserved ICAL.

Sample: 70182232002

[1] Method 524.2: Sample analyzed with a preserved ICAL.

Sample: 70182232003

[1] Method 524.2: Sample analyzed with a preserved ICAL.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

IL This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GE LANCASTER 7/28

Pace Project No.: 70182232

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70182232003	(b) (9) POST	EPA 200.7	220593	EPA 200.7	220718
70182232001	[REDACTED] PRE	EPA 200.7	220882		
70182232001	[REDACTED] PRE	EPA 200.8	220247		
70182232003	[REDACTED] POST	EPA 200.8	219887		
70182232001	[REDACTED] PRE	EPA 524.2	220600		
70182232002	[REDACTED] MID	EPA 524.2	220600		
70182232003	[REDACTED] POST	EPA 524.2	220600		
70182232001	[REDACTED] PRE	EPA 120.1	219985		
70182232001	[REDACTED] PRE	EPA 180.1	219791		
70182232001	[REDACTED] PRE	SM22 2320B	219920		
70182232001	[REDACTED] PRE	SM22 4500-H+B	219919		
70182232001	(b) (9) PRE	EPA 300.0	220774		

REPORT OF LABORATORY ANALYSIS

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WO# : 70182232



70182232

CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT



www.pacelabs.com

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions.

pdf.

Page : 1 Of 1

Section A

Required Client Information:

Company: Tetra Tech
 Address: 1777 Sentry Parkway West
 Blue Bell, PA 19422
 Email: John.Mccall@tetratech.com
 Phone: 215 246 3031 Fax

Section B

Required Project Information:

Report To: John McCall
 Copy To:
 Purchase Order #:
 Project Name: GE Lancaster
 Project #:

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote:

Pace Project Manager: nicolette.lovari@pacelabs.com

Pace Profile #: 0

Regulatory Agency

State / Location

PA

Requested Due Date:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) DW WT WW P SL OL WP AR OT TS	SAMPLE TYPE (G=GRAB C=COMP) G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)				
						START DATE	TIME	END DATE	TIME					H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		
1	(b) (9) Pre		DW	7-28-21	1001									X	X	X						
2	Mid		DW	7-28-21	0950									X								
3	Post		DW	7-28-21	0938									X	X							
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS						TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Metals will be field filtered (As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Na, Zn)			Dave Seaman MSI PACE			7-28-21	1337	M. PACE Complete			7-28-21	1337	1.9 40 N Y									
See attached List						7-28-21	1500				7-29-21	09:55										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Dave Seaman
Signature

DATE Signed: 7/28/21

Analyses for (b) (9) Pleasure Samples 7-28-21

Three samples are being collected: [REDACTED]-pre, [REDACTED]-mid, and (b) (9)-post

- All three samples get VOCs by method 524.2 ("full list") – [Apparently the method 524.2 gets a different preservative than normal - ascorbic acid and maleic acid instead of HCl – lab to verify]
- Sample (b) (9)-post also gets total cadmium and total nickel by method 200.7
- Sample [REDACTED]-pre also gets the following (field-filter the metals samples):

Test Description	Analytical method
Specific Conductivity @ 25.0 C (at lab)	SM 2510B
pH, Lab (Electrometric) (at lab)	SM 4500-H+ B
Alkalinity Total as CaCO ₃ (Titrimetric)	SM 2320B
Arsenic, Dissolved by Trace Elements in Waters & Wastes by ICPMS	EPA 200.7
Barium, Dissolved by Trace Elements in Waters & wastes by ICP	EPA 200.7
Cadmium, Dissolved by Trace Elements in Waters & wastes by ICP	EPA 200.7
Calcium, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Chromium, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Copper, Dissolved by Trace Elements in Waters & wastes by ICP	EPA 200.7
Iron, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.8
Lead, Dissolved by Trace Elements in Waters & Wastes by ICPMS	EPA 200.7
Magnesium, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Manganese, Dissolved by Trace Elements in Waters & wastes by ICP	EPA 200.7
Mercury, Dissolved	EPA 245.1
Nickel, Dissolved	EPA 200.7
Potassium, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Selenium, Dissolved by Trace Elements in Waters & wastes by ICPMS	EPA 200.8
Silver, Dissolved by Trace Elements in Waters & wastes by ICP	EPA 200.7
Sodium, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Zinc, Dissolved by Trace Elements in Waters & Wastes by ICP	EPA 200.7
Chloride, Total by Colorimetric	SM 4500-CL- E
Sulfate Total by Automated Colorimetric	EPA 375.2
Fluoride, Total, by Ion Chromatograph	EPA 300.0
Turbidity, Nephelometric (at lab)	EPA 180.1



Sample Condition Upon Rec

WO# : 70182232

PM: KMM

Due Date: 08/09/21

CLIENT: TETRA

Client Name:

Tetra tech

Proj

Courier: FedEx UPS USPS Client Commercial Pace Other

Tracking #: 2819 5438 4621

Temperature Blank Present: Yes NoType of Ice: Wet Blue None Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes NoPacking Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 1.9 Cooler Temperature Corrected(°C): 1.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: CH/HQ/24

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist [F-LI-C-010] and include with SCUR/COC paperwork.

COMMENTS:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.	
Sufficient Volume: (Triple volume provided for	<input type="checkbox"/> Yes	<input type="checkbox"/> No	8.	
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID, Matrix:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.	
All containers needing preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #	<i>HCOY102</i>			
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).				Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

October 20, 2021

John McCall
Tetra Tech
1777 Sentry Parkway West
Blue Bell, PA 19422

RE: Project: GE LANCASTER 10/6
Pace Project No.: 70190549

Dear John McCall:

Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kimberley M. Mack
kimberley.mack@pacelabs.com
(631)694-3040
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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